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TABLES DE LA FONCTION DE RÉPARTITION DE LA LOI DE WEIBULL

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La fonction de répartition de la loi de Weibull de forme générale :

$$F(z) = \Pr(Z < z) = 1 - \exp \left[- \left(\frac{z - \gamma}{\eta} \right)^\beta \right],$$

peut, moyennant le changement d'échelle défini par :

$$X = \frac{Z - \gamma}{\eta}$$

se mettre sous la forme réduite :

$$F(x) = 1 - \exp(-x^\beta).$$

Les tables ci-après donnent les valeurs de $F(x)$ avec 4 décimales pour :

$$\begin{aligned} x &= 0,01 \dots (0,01) \dots\dots 2,50 \\ \beta &= 0,1 \dots (0,1) \dots\dots 3 \end{aligned}$$

et pour

$$x = 0,1 \dots (0,1) \dots 2 \quad \text{et} \quad \beta = 3,10 \dots\dots (0,10) \dots\dots 4,00$$

Exemple : $\beta = 2,2, \quad x = 0,4 \quad F(x) = 0,1247.$

UTILISATION DES TABLES DE LA LOI DE WEIBULL pour résoudre par simulation certains problèmes de fiabilité.

La loi de Weibull est une loi très générale à laquelle s'ajustent un grand nombre de phénomènes d'apparition d'avaries.

γ = paramètre d'origine des temps ; il est égal à 0 dans la tabulation

η = paramètre d'échelle ; il est égal à 1 dans la tabulation

L'allure générale des courbes représentatives dépend du paramètre de forme β qui caractérise la façon dont évolue le taux instantané d'avarie avec le temps de service.

1/ $\beta > 1$ - Taux instantané d'avarie croissant

Le matériel s'use en service. La densité de probabilité d'avarie est représentée par une courbe unimodale, fortement dissymétrique pour les faibles valeurs de β , mais qui tend vers une courbe symétrique, d'allure gaussienne pour les fortes valeurs, et pratiquement pour $\beta > 3$.

2/ $0 < \beta < 1$ - Taux instantané d'avarie décroissant

Au lieu de s'user, le matériel se rode et s'adapte à son service. La densité de probabilité d'avarie est constamment décroissante.

3/ $\beta = 1$ - Taux instantané d'avarie constant

Cas limite de la loi exponentielle pour la densité de probabilité d'avarie.

A un type donné de matériel correspond, en général, une certaine valeur de β , liée au fait que le matériel a plus ou moins tendance à s'user ou au contraire à s'adapter à son service. Ainsi, pour le roulement, dans le cas assez général que constituent les conditions habituelles de fabrication, puis d'essais accélérés en laboratoire, β reste voisin de 1,4.

L'ajustement à la loi de Weibull et la valeur de β ayant été acquis par des essais antérieurs, la connaissance du paramètre d'échelle η détermine complètement la courbe de survie. Elle donne la vie moyenne, ainsi que le temps B_{10} par exemple au bout duquel 10 % du matériel aura cessé de servir.

Mais, la connaissance de la caractéristique B_{10} , ou de tout autre point de la courbe de survie, suffit pour avoir la courbe toute entière, autrement dit, pour juger de la valeur d'une fabrication dans des conditions de travail déterminées.

Pour avoir un point tel que B_{10} avec précision, il faudrait pouvoir essayer un échantillon très important. Or, on est limité par le nombre de machines d'essais dont on dispose et surtout pour la durée souvent fort longue nécessaire à entraîner l'avarie. On choisira donc un estimateur de cette caractéristique, par exemple le temps au bout duquel survient la 8ème défaillance dans un échantillon de 80, ou bien la moyenne des temps des premières avaries dans chacun des 10 échantillons de 8. Tout le problème consiste à connaître l'intervalle de confiance pour la caractéristique cherchée autour de cet estimateur.

La résolution mathématique de ce problème est très difficile. Une simulation, engendrant en nombre illimité, à partir de nombres au hasard, des échantillons de taille semblable à ceux qu'on peut mettre à l'essai et distribués suivant une loi de Weibull de paramètre β désiré, permet d'obtenir la distribution de l'estimateur avec la précision que l'on veut. D'où l'on déduit l'intervalle de confiance à un risque donné autour de l'estimateur.

C'est ce procédé qui a été utilisé par la S.N.R. pour définir un plan d'essais de fiabilité.

B= 0.1

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.4679	.4915	.5055	.5156	.5234	.5299	.5354	.5401	.5443	.5481
0.1	.5515	.5547	.5576	.5602	.5627	.5651	.5673	.5693	.5713	.5732
0.2	.5749	.5766	.5782	.5798	.5813	.5827	.5841	.5854	.5867	.5879
0.3	.5891	.5903	.5914	.5925	.5936	.5946	.5956	.5966	.5975	.5985
0.4	.5994	.6002	.6011	.6020	.6028	.6036	.6044	.6051	.6059	.6066
0.5	.6074	.6081	.6088	.6095	.6101	.6108	.6115	.6121	.6127	.6133
0.6	.6139	.6145	.6151	.6157	.6163	.6168	.6174	.6179	.6185	.6190
0.7	.6195	.6200	.6205	.6210	.6215	.6220	.6225	.6230	.6234	.6239
0.8	.6244	.6248	.6253	.6257	.6261	.6266	.6270	.6274	.6278	.6282
0.9	.6287	.6291	.6295	.6298	.6302	.6306	.6310	.6314	.6318	.6321
1.0	.6325	.6328	.6332	.6336	.6339	.6343	.6346	.6350	.6353	.6356
1.1	.6360	.6363	.6366	.6369	.6373	.6376	.6379	.6382	.6385	.6388
1.2	.6391	.6394	.6397	.6400	.6403	.6406	.6409	.6412	.6415	.6418
1.3	.6421	.6423	.6426	.6429	.6432	.6434	.6437	.6440	.6442	.6445
1.4	.6448	.6450	.6453	.6455	.6458	.6460	.6463	.6465	.6468	.6470
1.5	.6473	.6475	.6478	.6480	.6482	.6485	.6487	.6489	.6492	.6494
1.6	.6496	.6499	.6501	.6503	.6505	.6508	.6510	.6512	.6514	.6516
1.7	.6518	.6521	.6523	.6525	.6527	.6529	.6531	.6533	.6535	.6537
1.8	.6539	.6541	.6543	.6545	.6547	.6549	.6551	.6553	.6555	.6557
1.9	.6559	.6561	.6563	.6565	.6567	.6569	.6570	.6572	.6574	.6576
2.0	.6578	.6580	.6581	.6583	.6585	.6587	.6589	.6590	.6592	.6594
2.1	.6596	.6597	.6599	.6601	.6603	.6604	.6606	.6608	.6609	.6611
2.2	.6613	.6614	.6616	.6618	.6619	.6621	.6622	.6624	.6626	.6627
2.3	.6629	.6630	.6632	.6634	.6635	.6637	.6638	.6640	.6641	.6643
2.4	.6644	.6646	.6647	.6649	.6650	.6652	.6653	.6655	.6656	.6658

B= 0.2

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.3284	.3670	.3910	.4086	.4226	.4343	.4443	.4531	.4609	.4679
0.1	.4743	.4802	.4857	.4908	.4955	.5000	.5042	.5082	.5120	.5156
0.2	.5190	.5223	.5254	.5284	.5313	.5341	.5368	.5394	.5419	.5443
0.3	.5467	.5490	.5512	.5533	.5554	.5574	.5594	.5614	.5632	.5651
0.4	.5669	.5686	.5703	.5720	.5736	.5752	.5768	.5783	.5798	.5813
0.5	.5827	.5841	.5855	.5869	.5882	.5896	.5908	.5921	.5934	.5946
0.6	.5958	.5970	.5982	.5993	.6005	.6016	.6027	.6038	.6048	.6059
0.7	.6069	.6080	.6090	.6100	.6110	.6119	.6129	.6138	.6148	.6157
0.8	.6166	.6175	.6184	.6193	.6202	.6210	.6219	.6227	.6235	.6244
0.9	.6252	.6260	.6268	.6276	.6283	.6291	.6299	.6306	.6314	.6321
1.0	.6329	.6336	.6343	.6350	.6357	.6364	.6371	.6378	.6385	.6391
1.1	.6398	.6405	.6411	.6418	.6424	.6430	.6437	.6443	.6449	.6455
1.2	.6461	.6467	.6473	.6479	.6485	.6491	.6497	.6503	.6508	.6514
1.3	.6520	.6525	.6531	.6536	.6542	.6547	.6553	.6558	.6563	.6569
1.4	.6574	.6579	.6584	.6589	.6594	.6599	.6604	.6609	.6614	.6619
1.5	.6624	.6629	.6634	.6638	.6643	.6648	.6653	.6657	.6662	.6666
1.6	.6671	.6676	.6680	.6685	.6689	.6693	.6698	.6702	.6707	.6711
1.7	.6715	.6719	.6724	.6728	.6732	.6736	.6740	.6744	.6749	.6753
1.8	.6757	.6761	.6765	.6769	.6773	.6777	.6781	.6784	.6788	.6792
1.9	.6796	.6800	.6804	.6807	.6811	.6815	.6818	.6822	.6826	.6830
2.0	.6833	.6837	.6840	.6844	.6847	.6851	.6855	.6858	.6862	.6865
2.1	.6868	.6872	.6875	.6879	.6882	.6885	.6889	.6892	.6896	.6899
2.2	.6902	.6905	.6909	.6912	.6915	.6918	.6922	.6925	.6928	.6931
2.3	.6934	.6937	.6940	.6944	.6947	.6950	.6953	.6956	.6959	.6962
2.4	.6965	.6968	.6971	.6974	.6977	.6980	.6983	.6986	.6989	.6991

B = 0.3

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.2221	.2660	.2948	.3166	.3344	.3495	.3626	.3742	.3847	.3942
0.1	.4029	.4110	.4185	.4256	.4322	.4385	.4444	.4500	.4553	.4605
0.2	.4653	.4700	.4745	.4789	.4830	.4870	.4909	.4947	.4983	.5018
0.3	.5053	.5086	.5118	.5150	.5180	.5210	.5239	.5267	.5295	.5322
0.4	.5348	.5374	.5399	.5424	.5448	.5471	.5495	.5517	.5540	.5561
0.5	.5583	.5604	.5625	.5645	.5665	.5684	.5704	.5723	.5741	.5760
0.6	.5778	.5795	.5813	.5830	.5847	.5864	.5880	.5896	.5913	.5928
0.7	.5944	.5959	.5974	.5989	.6004	.6019	.6033	.6047	.6061	.6075
0.8	.6089	.6102	.6116	.6129	.6142	.6155	.6168	.6180	.6193	.6205
0.9	.6217	.6229	.6241	.6253	.6265	.6276	.6288	.6299	.6310	.6321
1.0	.6332	.6343	.6354	.6364	.6375	.6386	.6396	.6406	.6416	.6426
1.1	.6436	.6446	.6456	.6466	.6475	.6485	.6494	.6504	.6513	.6522
1.2	.6531	.6541	.6550	.6558	.6567	.6576	.6585	.6593	.6602	.6610
1.3	.6619	.6627	.6636	.6644	.6652	.6650	.6668	.6676	.6684	.6692
1.4	.6700	.6707	.6715	.6723	.6730	.6738	.6745	.6753	.6760	.6768
1.5	.6775	.6782	.6789	.6796	.6803	.6810	.6817	.6824	.6831	.6838
1.6	.6845	.6852	.6858	.6865	.6872	.6878	.6885	.6891	.6898	.6904
1.7	.6911	.6917	.6923	.6930	.6936	.6942	.6948	.6954	.6960	.6966
1.8	.6972	.6978	.6984	.6990	.6996	.7002	.7008	.7014	.7019	.7025
1.9	.7031	.7036	.7042	.7048	.7053	.7059	.7064	.7070	.7075	.7080
2.0	.7086	.7091	.7096	.7102	.7107	.7112	.7117	.7123	.7128	.7133
2.1	.7138	.7143	.7148	.7153	.7158	.7163	.7168	.7173	.7178	.7183
2.2	.7188	.7193	.7197	.7202	.7207	.7212	.7216	.7221	.7226	.7230
2.3	.7235	.7240	.7244	.7249	.7253	.7258	.7262	.7267	.7271	.7276
2.4	.7280	.7284	.7289	.7293	.7298	.7302	.7306	.7310	.7315	.7319

B= 0.4

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.1466	.1887	.2180	.2411	.2604	.2771	.2919	.3052	.3173	.3284
0.1	.3387	.3483	.3574	.3658	.3739	.3815	.3887	.3957	.4023	.4086
0.2	.4147	.4206	.4262	.4317	.4369	.4420	.4469	.4517	.4564	.4609
0.3	.4653	.4695	.4737	.4777	.4816	.4855	.4892	.4929	.4965	.5000
0.4	.5034	.5068	.5101	.5133	.5164	.5195	.5226	.5255	.5285	.5313
0.5	.5341	.5369	.5396	.5423	.5449	.5475	.5501	.5526	.5550	.5574
0.6	.5598	.5622	.5645	.5668	.5690	.5712	.5734	.5756	.5777	.5798
0.7	.5819	.5839	.5859	.5879	.5899	.5918	.5937	.5956	.5975	.5993
0.8	.6011	.6029	.6047	.6065	.6082	.6099	.6116	.6133	.6150	.6166
0.9	.6182	.6199	.6214	.6230	.6246	.6251	.6276	.6291	.6306	.6321
1.0	.6336	.6350	.6365	.6379	.6393	.6407	.6421	.6434	.6448	.6461
1.1	.6475	.6488	.6501	.6514	.6527	.6539	.6552	.6565	.6577	.6589
1.2	.6601	.6614	.6625	.6637	.6649	.6661	.6672	.6684	.6695	.6707
1.3	.6718	.6729	.6740	.6751	.6762	.6773	.6783	.6794	.6804	.6815
1.4	.6825	.6835	.6846	.6856	.6866	.6876	.6886	.6896	.6905	.6915
1.5	.6925	.6934	.6944	.6953	.6963	.6972	.6981	.6990	.7000	.7009
1.6	.7018	.7027	.7035	.7044	.7053	.7062	.7070	.7079	.7087	.7096
1.7	.7104	.7113	.7121	.7129	.7137	.7146	.7154	.7162	.7170	.7178
1.8	.7186	.7194	.7201	.7209	.7217	.7225	.7232	.7240	.7247	.7255
1.9	.7262	.7270	.7277	.7284	.7292	.7299	.7306	.7313	.7320	.7327
2.0	.7334	.7341	.7348	.7355	.7362	.7369	.7376	.7383	.7389	.7396
2.1	.7403	.7409	.7416	.7422	.7429	.7435	.7442	.7448	.7455	.7461
2.2	.7467	.7474	.7480	.7486	.7492	.7498	.7504	.7511	.7517	.7523
2.3	.7529	.7535	.7541	.7546	.7552	.7558	.7564	.7570	.7576	.7581
2.4	.7587	.7593	.7598	.7604	.7610	.7615	.7621	.7626	.7632	.7637

B = 0.5

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0952	.1319	.1590	.1813	.2004	.2173	.2325	.2464	.2592	.2711
0.1	.2823	.2928	.3027	.3121	.3211	.3297	.3379	.3457	.3533	.3606
0.2	.3676	.3744	.3810	.3873	.3935	.3994	.4053	.4109	.4164	.4217
0.3	.4269	.4320	.4370	.4418	.4466	.4512	.4557	.4601	.4645	.4687
0.4	.4729	.4769	.4809	.4849	.4887	.4925	.4962	.4998	.5034	.5069
0.5	.5104	.5138	.5171	.5204	.5237	.5268	.5300	.5331	.5361	.5391
0.6	.5421	.5450	.5478	.5507	.5535	.5562	.5589	.5616	.5642	.5668
0.7	.5694	.5720	.5745	.5769	.5794	.5818	.5842	.5865	.5889	.5912
0.8	.5934	.5957	.5979	.6001	.6023	.6044	.6065	.6086	.6107	.6127
0.9	.6148	.6168	.6188	.6207	.6227	.6246	.6265	.6284	.6303	.6321
1.0	.6340	.6358	.6376	.6393	.6411	.6428	.6446	.6463	.6480	.6496
1.1	.6513	.6530	.6546	.6562	.6578	.6594	.6610	.6625	.6641	.6656
1.2	.6671	.6686	.6701	.6716	.6731	.6745	.6760	.6774	.6788	.6802
1.3	.6816	.6830	.6844	.6858	.6871	.6884	.6898	.6911	.6924	.6937
1.4	.6950	.6963	.6975	.6988	.7001	.7013	.7025	.7038	.7050	.7062
1.5	.7074	.7085	.7097	.7109	.7121	.7132	.7144	.7155	.7166	.7177
1.6	.7188	.7200	.7210	.7221	.7232	.7243	.7254	.7264	.7275	.7285
1.7	.7296	.7306	.7316	.7326	.7336	.7346	.7356	.7366	.7376	.7386
1.8	.7396	.7405	.7415	.7424	.7434	.7443	.7453	.7462	.7471	.7480
1.9	.7489	.7498	.7507	.7516	.7525	.7534	.7543	.7552	.7560	.7569
2.0	.7577	.7586	.7594	.7603	.7611	.7619	.7628	.7636	.7644	.7652
2.1	.7660	.7668	.7676	.7684	.7692	.7700	.7708	.7716	.7723	.7731
2.2	.7739	.7746	.7754	.7761	.7769	.7776	.7783	.7791	.7798	.7805
2.3	.7813	.7820	.7827	.7834	.7841	.7848	.7855	.7862	.7869	.7876
2.4	.7883	.7889	.7896	.7903	.7910	.7916	.7923	.7930	.7936	.7943

B= 0.6

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0611	.0912	.1148	.1349	.1527	.1688	.1836	.1973	.2101	.2221
0.1	.2335	.2444	.2547	.2646	.2741	.2832	.2920	.3005	.3087	.3166
0.2	.3243	.3318	.3390	.3461	.3529	.3596	.3661	.3724	.3786	.3847
0.3	.3906	.3964	.4020	.4075	.4130	.4183	.4235	.4286	.4336	.4385
0.4	.4433	.4480	.4527	.4572	.4617	.4661	.4704	.4747	.4789	.4830
0.5	.4871	.4911	.4950	.4989	.5027	.5055	.5102	.5138	.5174	.5210
0.6	.5245	.5279	.5313	.5347	.5380	.5413	.5445	.5477	.5509	.5540
0.7	.5570	.5601	.5630	.5660	.5689	.5718	.5747	.5775	.5803	.5830
0.8	.5857	.5884	.5911	.5937	.5963	.5989	.6014	.6039	.6064	.6089
0.9	.6113	.6137	.6161	.6185	.6208	.6231	.6254	.6277	.6299	.6321
1.0	.6343	.6365	.6386	.6408	.6429	.6450	.6471	.6491	.6511	.6531
1.1	.6551	.6571	.6591	.6610	.6629	.6648	.6667	.6686	.6704	.6723
1.2	.6741	.6759	.6777	.6795	.6812	.6830	.6847	.6864	.6881	.6898
1.3	.6915	.6931	.6947	.6964	.6980	.6996	.7012	.7028	.7043	.7059
1.4	.7074	.7089	.7104	.7119	.7134	.7149	.7164	.7178	.7193	.7207
1.5	.7221	.7235	.7249	.7263	.7277	.7290	.7304	.7317	.7331	.7344
1.6	.7357	.7370	.7383	.7396	.7409	.7422	.7434	.7447	.7459	.7471
1.7	.7484	.7496	.7508	.7520	.7532	.7543	.7555	.7567	.7578	.7590
1.8	.7601	.7612	.7624	.7635	.7646	.7657	.7668	.7679	.7690	.7700
1.9	.7711	.7721	.7732	.7742	.7753	.7753	.7773	.7783	.7793	.7803
2.0	.7813	.7823	.7833	.7843	.7853	.7852	.7872	.7881	.7891	.7900
2.1	.7910	.7919	.7928	.7937	.7946	.7955	.7964	.7973	.7982	.7991
2.2	.8000	.8008	.8017	.8026	.8034	.8043	.8051	.8060	.8068	.8076
2.3	.8084	.8093	.8101	.8109	.8117	.8125	.8133	.8141	.8149	.8157
2.4	.8164	.8172	.8180	.8187	.8195	.8202	.8210	.8217	.8225	.8232

B= 0.7

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0390	.0626	.0823	.0997	.1156	.1302	.1440	.1569	.1692	.1809
0.1	.1921	.2028	.2132	.2232	.2328	.2421	.2512	.2600	.2685	.2768
0.2	.2849	.2928	.3005	.3081	.3154	.3226	.3296	.3365	.3432	.3498
0.3	.3563	.3626	.3689	.3750	.3809	.3858	.3926	.3983	.4039	.4094
0.4	.4148	.4201	.4253	.4304	.4355	.4405	.4454	.4502	.4550	.4597
0.5	.4643	.4688	.4733	.4778	.4821	.4864	.4907	.4949	.4990	.5031
0.6	.5071	.5111	.5150	.5189	.5227	.5265	.5302	.5339	.5376	.5412
0.7	.5447	.5482	.5517	.5551	.5585	.5619	.5652	.5684	.5717	.5749
0.8	.5780	.5812	.5843	.5873	.5904	.5934	.5963	.5992	.6021	.6050
0.9	.6079	.6107	.6134	.6162	.6189	.6216	.6243	.6269	.6295	.6321
1.0	.6347	.6372	.6397	.6422	.6447	.6471	.6495	.6519	.6543	.6566
1.1	.6590	.6613	.6636	.6658	.6681	.6703	.6725	.6746	.6768	.6789
1.2	.6811	.6832	.6852	.6873	.6893	.6914	.6934	.6954	.6973	.6993
1.3	.7012	.7031	.7050	.7069	.7088	.7107	.7125	.7143	.7161	.7179
1.4	.7197	.7215	.7232	.7249	.7267	.7284	.7301	.7317	.7334	.7350
1.5	.7367	.7383	.7399	.7415	.7431	.7447	.7462	.7478	.7493	.7508
1.6	.7523	.7538	.7553	.7568	.7582	.7597	.7611	.7626	.7640	.7654
1.7	.7668	.7682	.7695	.7709	.7723	.7736	.7749	.7763	.7776	.7789
1.8	.7802	.7814	.7827	.7840	.7852	.7855	.7877	.7889	.7902	.7914
1.9	.7926	.7938	.7949	.7961	.7973	.7984	.7996	.8007	.8019	.8030
2.0	.8041	.8052	.8063	.8074	.8085	.8096	.8106	.8117	.8128	.8138
2.1	.8148	.8159	.8169	.8179	.8189	.8199	.8209	.8219	.8229	.8239
2.2	.8248	.8258	.8268	.8277	.8287	.8296	.8305	.8315	.8324	.8333
2.3	.8342	.8351	.8360	.8369	.8378	.8386	.8395	.8404	.8412	.8421
2.4	.8429	.8438	.8446	.8454	.8463	.8471	.8479	.8487	.8495	.8503

B = 0.8

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0248	.0428	.0587	.0733	.0870	.1000	.1123	.1242	.1356	.1466
0.1	.1572	.1675	.1776	.1873	.1969	.2061	.2152	.2240	.2327	.2411
0.2	.2494	.2576	.2655	.2733	.2810	.2885	.2959	.3031	.3103	.3173
0.3	.3242	.3310	.3376	.3442	.3506	.3570	.3633	.3694	.3755	.3815
0.4	.3874	.3932	.3989	.4046	.4102	.4157	.4211	.4264	.4317	.4369
0.5	.4421	.4471	.4522	.4571	.4620	.4668	.4716	.4763	.4809	.4855
0.6	.4900	.4945	.4989	.5033	.5076	.5119	.5161	.5203	.5244	.5285
0.7	.5325	.5365	.5404	.5443	.5482	.5520	.5557	.5595	.5631	.5668
0.8	.5704	.5740	.5775	.5810	.5844	.5878	.5912	.5946	.5979	.6011
0.9	.6044	.6076	.6108	.6139	.6170	.6201	.6232	.6262	.6292	.6321
1.0	.6350	.6379	.6408	.6437	.6465	.6493	.6520	.6548	.6575	.6601
1.1	.6628	.6654	.6680	.6706	.6732	.6757	.6782	.6807	.6831	.6856
1.2	.6880	.6904	.6928	.6951	.6974	.6997	.7020	.7043	.7065	.7087
1.3	.7109	.7131	.7153	.7174	.7195	.7217	.7237	.7258	.7279	.7299
1.4	.7319	.7339	.7359	.7378	.7398	.7417	.7436	.7455	.7474	.7492
1.5	.7511	.7529	.7547	.7565	.7583	.7600	.7618	.7635	.7652	.7669
1.6	.7686	.7703	.7720	.7736	.7752	.7769	.7785	.7801	.7816	.7832
1.7	.7848	.7863	.7878	.7893	.7908	.7923	.7938	.7953	.7967	.7982
1.8	.7996	.8010	.8024	.8038	.8052	.8066	.8079	.8093	.8106	.8120
1.9	.8133	.8146	.8159	.8172	.8184	.8197	.8210	.8222	.8234	.8247
2.0	.8259	.8271	.8283	.8295	.8307	.8318	.8330	.8341	.8353	.8364
2.1	.8375	.8387	.8398	.8409	.8419	.8430	.8441	.8452	.8462	.8473
2.2	.8483	.8493	.8504	.8514	.8524	.8534	.8544	.8554	.8563	.8573
2.3	.8583	.8592	.8602	.8611	.8620	.8630	.8639	.8648	.8657	.8666
2.4	.8675	.8684	.8693	.8701	.8710	.8719	.8727	.8736	.8744	.8752

B= 0.9

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0157	.0291	.0417	.0537	.0652	.0764	.0873	.0979	.1082	.1183
0.1	.1282	.1379	.1474	.1567	.1658	.1748	.1837	.1924	.2009	.2094
0.2	.2177	.2258	.2339	.2418	.2496	.2573	.2649	.2724	.2798	.2871
0.3	.2943	.3014	.3084	.3153	.3221	.3288	.3355	.3420	.3485	.3549
0.4	.3612	.3675	.3737	.3798	.3858	.3917	.3976	.4034	.4092	.4148
0.5	.4205	.4260	.4315	.4369	.4423	.4476	.4528	.4580	.4631	.4682
0.6	.4732	.4781	.4830	.4879	.4927	.4974	.5021	.5067	.5113	.5159
0.7	.5204	.5248	.5292	.5336	.5379	.5421	.5463	.5505	.5546	.5587
0.8	.5627	.5667	.5707	.5746	.5785	.5823	.5861	.5899	.5936	.5973
0.9	.6009	.6045	.6081	.6116	.6151	.6186	.6220	.6254	.6288	.6321
1.0	.6354	.6387	.6419	.6451	.6483	.6514	.6545	.6576	.6606	.6636
1.1	.6666	.6696	.6725	.6754	.6783	.6811	.6839	.6867	.6895	.6922
1.2	.6949	.6976	.7002	.7029	.7055	.7081	.7106	.7131	.7157	.7181
1.3	.7206	.7230	.7254	.7278	.7302	.7325	.7349	.7372	.7395	.7417
1.4	.7439	.7462	.7484	.7505	.7527	.7548	.7569	.7590	.7611	.7632
1.5	.7652	.7672	.7692	.7712	.7732	.7751	.7770	.7789	.7808	.7827
1.6	.7846	.7864	.7882	.7900	.7918	.7936	.7954	.7971	.7988	.8005
1.7	.8022	.8039	.8056	.8072	.8089	.8105	.8121	.8137	.8153	.8168
1.8	.8184	.8199	.8214	.8229	.8244	.8259	.8274	.8288	.8303	.8317
1.9	.8331	.8345	.8359	.8373	.8386	.8400	.8413	.8426	.8440	.8453
2.0	.8466	.8478	.8491	.8504	.8516	.8529	.8541	.8553	.8565	.8577
2.1	.8589	.8601	.8612	.8624	.8635	.8647	.8658	.8669	.8680	.8691
2.2	.8702	.8712	.8723	.8734	.8744	.8754	.8765	.8775	.8785	.8795
2.3	.8805	.8815	.8825	.8834	.8844	.8853	.8863	.8872	.8881	.8891
2.4	.8900	.8909	.8918	.8927	.8935	.8944	.8953	.8961	.8970	.8978

B= 1.0

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0100	.0198	.0296	.0392	.0488	.0582	.0676	.0769	.0861	.0952
0.1	.1042	.1131	.1219	.1306	.1393	.1479	.1563	.1647	.1730	.1813
0.2	.1894	.1975	.2055	.2134	.2212	.2289	.2366	.2442	.2517	.2592
0.3	.2666	.2739	.2811	.2882	.2953	.3023	.3093	.3161	.3229	.3297
0.4	.3363	.3430	.3495	.3560	.3624	.3687	.3750	.3812	.3874	.3935
0.5	.3995	.4055	.4114	.4173	.4231	.4288	.4345	.4401	.4457	.4512
0.6	.4566	.4621	.4674	.4727	.4780	.4831	.4883	.4934	.4984	.5034
0.7	.5084	.5132	.5181	.5229	.5276	.5323	.5370	.5416	.5462	.5507
0.8	.5551	.5596	.5640	.5683	.5726	.5768	.5810	.5852	.5893	.5934
0.9	.5975	.6015	.6054	.6094	.6133	.6171	.6209	.6247	.6284	.6321
1.0	.6358	.6394	.6430	.6465	.6501	.6535	.6570	.6604	.6638	.6671
1.1	.6704	.6737	.6770	.6802	.6834	.6865	.6896	.6927	.6958	.6988
1.2	.7018	.7048	.7077	.7106	.7135	.7163	.7192	.7220	.7247	.7275
1.3	.7302	.7329	.7355	.7382	.7408	.7433	.7459	.7484	.7509	.7534
1.4	.7559	.7583	.7607	.7631	.7654	.7678	.7701	.7724	.7746	.7769
1.5	.7791	.7813	.7835	.7856	.7878	.7899	.7920	.7940	.7961	.7981
1.6	.8001	.8021	.8041	.8060	.8080	.8099	.8118	.8136	.8155	.8173
1.7	.8191	.8209	.8227	.8245	.8262	.8280	.8297	.8314	.8330	.8347
1.8	.8363	.8380	.8396	.8412	.8428	.8443	.8459	.8474	.8489	.8504
1.9	.8519	.8534	.8549	.8563	.8577	.8591	.8605	.8619	.8633	.8647
2.0	.8660	.8673	.8687	.8700	.8713	.8725	.8738	.8751	.8763	.8775
2.1	.8788	.8800	.8812	.8823	.8835	.8847	.8858	.8870	.8881	.8892
2.2	.8903	.8914	.8925	.8935	.8946	.8956	.8967	.8977	.8987	.8997
2.3	.9007	.9017	.9027	.9037	.9046	.9056	.9065	.9074	.9084	.9093
2.4	.9102	.9111	.9120	.9128	.9137	.9146	.9154	.9163	.9171	.9179

B= 1.1

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0063	.0134	.0209	.0286	.0364	.0443	.0522	.0603	.0683	.0764
0.1	.0844	.0925	.1006	.1086	.1167	.1247	.1327	.1407	.1486	.1566
0.2	.1644	.1723	.1801	.1879	.1956	.2033	.2109	.2185	.2260	.2335
0.3	.2410	.2484	.2557	.2630	.2703	.2775	.2846	.2917	.2988	.3058
0.4	.3127	.3196	.3265	.3332	.3400	.3456	.3533	.3598	.3664	.3728
0.5	.3792	.3856	.3919	.3981	.4043	.4105	.4166	.4226	.4286	.4345
0.6	.4404	.4463	.4520	.4578	.4634	.4691	.4747	.4802	.4857	.4911
0.7	.4965	.5018	.5071	.5123	.5175	.5226	.5277	.5327	.5377	.5427
0.8	.5476	.5524	.5572	.5620	.5667	.5714	.5760	.5806	.5851	.5896
0.9	.5940	.5984	.6028	.6071	.6114	.6156	.6198	.6239	.6281	.6321
1.0	.6361	.6401	.6441	.6480	.6519	.6557	.6595	.6632	.6669	.6706
1.1	.6743	.6779	.6814	.6850	.6884	.6919	.6953	.6987	.7021	.7054
1.2	.7087	.7119	.7151	.7183	.7215	.7246	.7277	.7307	.7337	.7367
1.3	.7397.	.7426	.7455	.7484	.7512	.7540	.7568	.7595	.7622	.7649
1.4	.7676	.7702	.7728	.7754	.7780	.7805	.7830	.7854	.7879	.7903
1.5	.7927	.7951	.7974	.7997	.8020	.8043	.8065	.8087	.8109	.8131
1.6	.8152	.8173	.8194	.8215	.8236	.8256	.8276	.8296	.8315	.8335
1.7	.8354	.8373	.8392	.8410	.8429	.8447	.8465	.8483	.8500	.8518
1.8	.8535	.8552	.8569	.8585	.8602	.8618	.8634	.8650	.8666	.8681
1.9	.8697	.8712	.8727	.8742	.8757	.8771	.8785	.8800	.8814	.8828
2.0	.8841	.8855	.8868	.8882	.8895	.8908	.8921	.8933	.8946	.8958
2.1	.8971	.8983	.8995	.9007	.9018	.9030	.9041	.9053	.9064	.9075
2.2	.9086	.9097	.9107	.9118	.9128	.9139	.9149	.9159	.9169	.9179
2.3	.9189	.9198	.9208	.9217	.9227	.9236	.9245	.9254	.9263	.9272
2.4	.9280	.9289	.9297	.9306	.9314	.9322	.9330	.9338	.9346	.9354

B= 1.2

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0040	.0091	.0148	.0208	.0271	.0336	.0403	.0471	.0541	.0611
0.1	.0683	.0755	.0828	.0902	.0975	.1050	.1124	.1199	.1274	.1349
0.2	.1425	.1500	.1575	.1651	.1726	.1801	.1876	.1951	.2026	.2101
0.3	.2175	.2249	.2323	.2397	.2470	.2543	.2616	.2689	.2761	.2832
0.4	.2904	.2975	.3046	.3116	.3186	.3255	.3324	.3393	.3461	.3529
0.5	.3597	.3663	.3730	.3796	.3862	.3927	.3991	.4056	.4119	.4183
0.6	.4245	.4308	.4370	.4431	.4492	.4552	.4612	.4672	.4730	.4789
0.7	.4847	.4904	.4961	.5018	.5074	.5130	.5185	.5239	.5293	.5347
0.8	.5400	.5453	.5505	.5557	.5608	.5659	.5709	.5759	.5808	.5857
0.9	.5906	.5954	.6001	.6048	.6095	.6141	.6187	.6232	.6277	.6321
1.0	.6365	.6409	.6452	.6494	.6536	.6578	.6620	.6660	.6701	.6741
1.1	.6781	.6820	.6859	.6897	.6935	.6973	.7010	.7047	.7083	.7119
1.2	.7155	.7190	.7225	.7260	.7294	.7328	.7361	.7394	.7427	.7459
1.3	.7491	.7523	.7554	.7585	.7615	.7646	.7675	.7705	.7734	.7763
1.4	.7792	.7820	.7848	.7875	.7903	.7929	.7956	.7982	.8009	.8034
1.5	.8060	.8085	.8110	.8134	.8158	.8182	.8206	.8230	.8253	.8276
1.6	.8298	.8321	.8343	.8364	.8386	.8407	.8428	.8449	.8470	.8490
1.7	.8510	.8530	.8549	.8568	.8588	.8606	.8625	.8643	.8662	.8679
1.8	.8697	.8715	.8732	.8749	.8766	.8783	.8799	.8815	.8831	.8847
1.9	.8863	.8878	.8893	.8908	.8923	.8938	.8952	.8967	.8981	.8995
2.0	.9009	.9022	.9036	.9049	.9062	.9075	.9088	.9100	.9113	.9125
2.1	.9137	.9149	.9161	.9172	.9184	.9195	.9206	.9217	.9228	.9239
2.2	.9250	.9260	.9270	.9281	.9291	.9301	.9311	.9320	.9330	.9339
2.3	.9349	.9358	.9367	.9376	.9385	.9393	.9402	.9410	.9419	.9427
2.4	.9435	.9443	.9451	.9459	.9467	.9474	.9482	.9489	.9496	.9504

B= 1.3

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0025	.0062	.0104	.0151	.0201	.0255	.0310	.0368	.0428	.0489
0.1	.0552	.0615	.0681	.0747	.0814	.0882	.0951	.1020	.1090	.1161
0.2	.1232	.1304	.1376	.1448	.1521	.1593	.1666	.1740	.1813	.1886
0.3	.1960	.2034	.2107	.2181	.2254	.2328	.2401	.2474	.2547	.2620
0.4	.2693	.2766	.2838	.2910	.2982	.3054	.3125	.3196	.3267	.3338
0.5	.3408	.3478	.3547	.3616	.3685	.3754	.3822	.3889	.3957	.4024
0.6	.4090	.4156	.4222	.4287	.4352	.4416	.4480	.4543	.4606	.4669
0.7	.4731	.4792	.4853	.4914	.4974	.5034	.5093	.5152	.5210	.5268
0.8	.5325	.5382	.5438	.5494	.5549	.5604	.5659	.5713	.5766	.5819
0.9	.5871	.5923	.5975	.6026	.6076	.6126	.6176	.6225	.6273	.6321
1.0	.6369	.6416	.6463	.6509	.6554	.6600	.6644	.6689	.6732	.6776
1.1	.6819	.6861	.6903	.6945	.6986	.7026	.7067	.7106	.7146	.7185
1.2	.7223	.7261	.7299	.7336	.7372	.7409	.7445	.7480	.7515	.7550
1.3	.7584	.7618	.7651	.7685	.7717	.7749	.7781	.7813	.7844	.7875
1.4	.7905	.7935	.7965	.7994	.8023	.8052	.8080	.8108	.8135	.8162
1.5	.8189	.8215	.8242	.8267	.8293	.8318	.8343	.8367	.8392	.8415
1.6	.8439	.8462	.8485	.8508	.8530	.8552	.8574	.8596	.8617	.8638
1.7	.8658	.8679	.8699	.8718	.8738	.8757	.8776	.8795	.8814	.8832
1.8	.8850	.8868	.8885	.8902	.8919	.8936	.8953	.8969	.8985	.9001
1.9	.9017	.9032	.9047	.9062	.9077	.9091	.9106	.9120	.9134	.9148
2.0	.9161	.9174	.9188	.9201	.9213	.9226	.9238	.9251	.9263	.9275
2.1	.9286	.9298	.9309	.9320	.9331	.9342	.9353	.9363	.9374	.9384
2.2	.9394	.9404	.9414	.9423	.9433	.9442	.9451	.9460	.9469	.9478
2.3	.9487	.9495	.9504	.9512	.9520	.9528	.9536	.9544	.9551	.9559
2.4	.9566	.9573	.9581	.9588	.9595	.9602	.9608	.9615	.9621	.9628

B= 1.4

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0016	.0042	.0074	.0110	.0150	.0193	.0239	.0287	.0338	.0390
0.1	.0445	.0501	.0559	.0618	.0678	.0740	.0803	.0867	.0932	.0997
0.2	.1064	.1131	.1199	.1268	.1338	.1407	.1478	.1549	.1620	.1692
0.3	.1764	.1836	.1909	.1982	.2055	.2128	.2201	.2274	.2348	.2421
0.4	.2495	.2569	.2642	.2715	.2789	.2862	.2935	.3008	.3081	.3154
0.5	.3227	.3299	.3371	.3443	.3515	.3586	.3657	.3728	.3798	.3868
0.6	.3938	.4008	.4077	.4145	.4214	.4282	.4349	.4417	.4483	.4550
0.7	.4616	.4681	.4746	.4811	.4875	.4939	.5002	.5065	.5127	.5189
0.8	.5250	.5311	.5372	.5432	.5491	.5550	.5608	.5666	.5724	.5780
0.9	.5837	.5893	.5948	.6003	.6057	.6111	.6164	.6217	.6269	.6321
1.0	.6372	.6423	.6473	.6523	.6572	.6621	.6669	.6717	.6764	.6811
1.1	.6857	.6902	.6947	.6992	.7036	.7080	.7123	.7166	.7208	.7249
1.2	.7291	.7331	.7372	.7411	.7451	.7489	.7528	.7565	.7603	.7640
1.3	.7676	.7712	.7748	.7783	.7818	.7852	.7886	.7919	.7952	.7984
1.4	.8017	.8048	.8079	.8110	.8141	.8171	.8200	.8229	.8258	.8287
1.5	.8315	.8342	.8370	.8396	.8423	.8449	.8475	.8500	.8525	.8550
1.6	.8574	.8598	.8622	.8645	.8668	.8691	.8713	.8735	.8757	.8778
1.7	.8799	.8820	.8840	.8860	.8880	.8899	.8918	.8937	.8956	.8974
1.8	.8992	.9010	.9027	.9045	.9062	.9078	.9095	.9111	.9127	.9142
1.9	.9158	.9173	.9188	.9202	.9217	.9231	.9245	.9259	.9272	.9286
2.0	.9299	.9312	.9324	.9337	.9349	.9361	.9373	.9385	.9396	.9407
2.1	.9418	.9429	.9440	.9450	.9461	.9471	.9481	.9491	.9500	.9510
2.2	.9519	.9528	.9537	.9546	.9555	.9563	.9572	.9580	.9588	.9596
2.3	.9604	.9612	.9619	.9627	.9634	.9641	.9648	.9655	.9662	.9668
2.4	.9675	.9681	.9688	.9694	.9700	.9706	.9712	.9717	.9723	.9729

B= 1.5

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0010	.0028	.0052	.0080	.0111	.0146	.0183	.0224	.0266	.0311
0.1	.0358	.0407	.0458	.0510	.0564	.0620	.0677	.0735	.0795	.0856
0.2	.0917	.0980	.1044	.1109	.1175	.1242	.1309	.1377	.1446	.1515
0.3	.1585	.1656	.1727	.1798	.1870	.1943	.2015	.2088	.2162	.2235
0.4	.2309	.2383	.2457	.2531	.2606	.2680	.2755	.2829	.2904	.2978
0.5	.3053	.3127	.3201	.3275	.3349	.3423	.3497	.3571	.3644	.3717
0.6	.3790	.3863	.3935	.4007	.4079	.4150	.4221	.4292	.4363	.4433
0.7	.4502	.4572	.4640	.4709	.4777	.4845	.4912	.4979	.5045	.5111
0.8	.5176	.5241	.5305	.5369	.5433	.5496	.5558	.5620	.5681	.5742
0.9	.5802	.5862	.5922	.5980	.6038	.6096	.6153	.6210	.6266	.6321
1.0	.6376	.6430	.6484	.6538	.6590	.6642	.6694	.6745	.6795	.6845
1.1	.6895	.6943	.6992	.7039	.7087	.7133	.7179	.7225	.7270	.7314
1.2	.7358	.7401	.7444	.7486	.7528	.7559	.7610	.7650	.7690	.7729
1.3	.7767	.7805	.7843	.7880	.7917	.7953	.7988	.8023	.8058	.8092
1.4	.8126	.8159	.8191	.8224	.8255	.8287	.8317	.8348	.8378	.8407
1.5	.8436	.8465	.8493	.8521	.8548	.8575	.8602	.8628	.8653	.8679
1.6	.8703	.8728	.8752	.8776	.8799	.8822	.8845	.8867	.8889	.8910
1.7	.8931	.8952	.8973	.8993	.9012	.9032	.9051	.9070	.9088	.9106
1.8	.9124	.9142	.9159	.9176	.9192	.9209	.9225	.9241	.9256	.9271
1.9	.9286	.9301	.9315	.9329	.9343	.9357	.9370	.9383	.9396	.9409
2.0	.9421	.9434	.9446	.9457	.9469	.9480	.9491	.9502	.9513	.9523
2.1	.9533	.9544	.9553	.9563	.9573	.9582	.9591	.9600	.9609	.9617
2.2	.9626	.9634	.9642	.9650	.9658	.9655	.9673	.9680	.9687	.9694
2.3	.9701	.9708	.9715	.9721	.9727	.9734	.9740	.9746	.9751	.9757
2.4	.9763	.9768	.9774	.9779	.9784	.9789	.9794	.9799	.9803	.9808

B= 1.6

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0006	.0019	.0037	.0058	.0083	.0110	.0141	.0174	.0210	.0248
0.1	.0288	.0331	.0375	.0421	.0469	.0519	.0570	.0623	.0677	.0733
0.2	.0790	.0849	.0908	.0969	.1031	.1094	.1158	.1223	.1289	.1356
0.3	.1423	.1492	.1561	.1630	.1701	.1772	.1843	.1916	.1988	.2061
0.4	.2135	.2209	.2283	.2357	.2432	.2507	.2583	.2658	.2734	.2810
0.5	.2886	.2962	.3038	.3114	.3190	.3266	.3342	.3418	.3494	.3570
0.6	.3646	.3721	.3796	.3872	.3947	.4021	.4096	.4170	.4244	.4317
0.7	.4390	.4463	.4536	.4608	.4680	.4751	.4822	.4893	.4963	.5033
0.8	.5102	.5171	.5239	.5307	.5375	.5442	.5508	.5574	.5639	.5704
0.9	.5768	.5832	.5895	.5958	.6020	.6081	.6142	.6202	.6262	.6321
1.0	.6380	.6438	.6495	.6552	.6608	.6654	.6719	.6773	.6827	.6880
1.1	.6933	.6984	.7036	.7087	.7137	.7186	.7235	.7283	.7331	.7378
1.2	.7425	.7471	.7516	.7561	.7605	.7648	.7691	.7734	.7775	.7816
1.3	.7857	.7897	.7937	.7975	.8014	.8052	.8089	.8125	.8162	.8197
1.4	.8232	.8267	.8301	.8334	.8367	.8399	.8431	.8463	.8493	.8524
1.5	.8554	.8583	.8612	.8640	.8668	.8696	.8723	.8749	.8776	.8801
1.6	.8826	.8851	.8875	.8899	.8923	.8946	.8969	.8991	.9013	.9034
1.7	.9055	.9076	.9096	.9116	.9136	.9155	.9174	.9192	.9210	.9228
1.8	.9245	.9262	.9279	.9295	.9312	.9327	.9343	.9358	.9373	.9387
1.9	.9402	.9416	.9429	.9443	.9456	.9469	.9481	.9494	.9506	.9518
2.0	.9529	.9540	.9552	.9562	.9573	.9583	.9594	.9604	.9613	.9623
2.1	.9632	.9641	.9650	.9659	.9667	.9676	.9684	.9692	.9700	.9707
2.2	.9715	.9722	.9729	.9736	.9743	.9749	.9756	.9762	.9768	.9774
2.3	.9780	.9786	.9792	.9797	.9802	.9808	.9813	.9818	.9822	.9827
2.4	.9832	.9836	.9841	.9845	.9849	.9853	.9857	.9861	.9865	.9869

B= 1.7

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0004	.0013	.0026	.0042	.0061	.0083	.0108	.0136	.0165	.0198
0.1	.0232	.0268	.0307	.0347	.0390	.0434	.0480	.0528	.0577	.0628
0.2	.0680	.0734	.0789	.0846	.0904	.0953	.1023	.1085	.1148	.1212
0.3	.1276	.1342	.1409	.1477	.1545	.1615	.1685	.1755	.1827	.1899
0.4	.1972	.2045	.2119	.2194	.2269	.2344	.2420	.2496	.2572	.2649
0.5	.2726	.2804	.2881	.2959	.3037	.3115	.3193	.3271	.3349	.3427
0.6	.3505	.3583	.3661	.3739	.3817	.3895	.3972	.4050	.4127	.4204
0.7	.4280	.4357	.4433	.4508	.4584	.4659	.4734	.4808	.4882	.4956
0.8	.5029	.5101	.5174	.5245	.5317	.5388	.5458	.5528	.5597	.5666
0.9	.5734	.5801	.5868	.5935	.6001	.6056	.6131	.6195	.6258	.6321
1.0	.6383	.6445	.6506	.6566	.6626	.6685	.6743	.6801	.6858	.6915
1.1	.6970	.7025	.7080	.7134	.7187	.7239	.7291	.7342	.7392	.7442
1.2	.7491	.7539	.7587	.7634	.7681	.7726	.7772	.7816	.7860	.7903
1.3	.7946	.7987	.8029	.8069	.8109	.8149	.8187	.8225	.8263	.8300
1.4	.8336	.8372	.8407	.8441	.8475	.8509	.8541	.8573	.8605	.8636
1.5	.8667	.8697	.8726	.8755	.8783	.8811	.8839	.8865	.8892	.8918
1.6	.8943	.8968	.8992	.9016	.9039	.9062	.9085	.9107	.9128	.9150
1.7	.9170	.9191	.9211	.9230	.9249	.9268	.9286	.9304	.9322	.9339
1.8	.9356	.9372	.9388	.9404	.9419	.9434	.9449	.9463	.9477	.9491
1.9	.9504	.9517	.9530	.9543	.9555	.9557	.9579	.9590	.9601	.9612
2.0	.9622	.9633	.9643	.9653	.9662	.9672	.9681	.9690	.9698	.9707
2.1	.9715	.9723	.9731	.9739	.9746	.9754	.9761	.9768	.9774	.9781
2.2	.9787	.9793	.9799	.9805	.9811	.9817	.9822	.9827	.9833	.9838
2.3	.9842	.9847	.9852	.9856	.9861	.9865	.9869	.9873	.9877	.9881
2.4	.9884	.9888	.9892	.9895	.9898	.9901	.9905	.9908	.9910	.9913

B = 1.8

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0003	.0009	.0018	.0030	.0045	.0063	.0083	.0106	.0130	.0157
0.1	.0186	.0218	.0251	.0286	.0323	.0353	.0404	.0446	.0491	.0537
0.2	.0585	.0634	.0685	.0738	.0792	.0847	.0904	.0962	.1021	.1082
0.3	.1144	.1207	.1271	.1336	.1403	.1470	.1538	.1607	.1677	.1748
0.4	.1820	.1893	.1966	.2040	.2115	.2190	.2266	.2342	.2419	.2496
0.5	.2574	.2652	.2731	.2810	.2889	.2968	.3048	.3128	.3208	.3288
0.6	.3369	.3449	.3529	.3610	.3690	.3771	.3851	.3932	.4012	.4092
0.7	.4172	.4251	.4331	.4410	.4489	.4568	.4646	.4724	.4802	.4879
0.8	.4956	.5032	.5108	.5184	.5259	.5334	.5408	.5482	.5555	.5627
0.9	.5700	.5771	.5842	.5912	.5982	.6051	.6120	.6187	.6255	.6321
1.0	.6387	.6452	.6517	.6581	.6644	.6706	.6768	.6829	.6889	.6949
1.1	.7008	.7066	.7124	.7180	.7236	.7292	.7346	.7400	.7453	.7505
1.2	.7557	.7608	.7658	.7707	.7756	.7804	.7851	.7898	.7943	.7988
1.3	.8033	.8076	.8119	.8161	.8203	.8244	.8284	.8323	.8362	.8400
1.4	.8437	.8474	.8510	.8545	.8580	.8614	.8648	.8680	.8713	.8744
1.5	.8775	.8805	.8835	.8864	.8893	.8921	.8948	.8975	.9002	.9027
1.6	.9053	.9077	.9101	.9125	.9148	.9171	.9193	.9215	.9236	.9257
1.7	.9277	.9297	.9316	.9335	.9353	.9371	.9389	.9406	.9423	.9439
1.8	.9455	.9471	.9486	.9501	.9515	.9529	.9543	.9556	.9569	.9582
1.9	.9595	.9607	.9618	.9630	.9641	.9652	.9662	.9673	.9683	.9693
2.0	.9702	.9711	.9720	.9729	.9738	.9746	.9754	.9762	.9769	.9777
2.1	.9784	.9791	.9798	.9804	.9811	.9817	.9823	.9829	.9834	.9840
2.2	.9845	.9850	.9855	.9860	.9865	.9870	.9874	.9878	.9882	.9886
2.3	.9890	.9894	.9898	.9901	.9905	.9908	.9911	.9915	.9918	.9921
2.4	.9923	.9926	.9929	.9931	.9934	.9936	.9939	.9941	.9943	.9945

B= 1.9

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0002	.0006	.0013	.0022	.0034	.0048	.0064	.0082	.0103	.0125
0.1	.0150	.0176	.0205	.0236	.0268	.0303	.0339	.0377	.0417	.0459
0.2	.0502	.0548	.0594	.0643	.0693	.0744	.0797	.0852	.0908	.0965
0.3	.1024	.1084	.1146	.1208	.1272	.1337	.1403	.1471	.1539	.1608
0.4	.1679	.1750	.1822	.1895	.1969	.2044	.2120	.2196	.2273	.2350
0.5	.2429	.2507	.2587	.2667	.2747	.2827	.2908	.2990	.3072	.3154
0.6	.3236	.3318	.3401	.3484	.3567	.3650	.3733	.3816	.3899	.3982
0.7	.4065	.4147	.4230	.4313	.4395	.4477	.4559	.4640	.4722	.4803
0.8	.4883	.4964	.5043	.5123	.5202	.5280	.5358	.5436	.5513	.5589
0.9	.5665	.5741	.5816	.5890	.5963	.6036	.6108	.6180	.6251	.6321
1.0	.6391	.6460	.6528	.6595	.6662	.6728	.6793	.6857	.6921	.6984
1.1	.7046	.7107	.7167	.7227	.7286	.7344	.7401	.7458	.7513	.7568
1.2	.7622	.7676	.7728	.7780	.7830	.7880	.7930	.7978	.8025	.8072
1.3	.8118	.8163	.8208	.8251	.8294	.8336	.8378	.8418	.8458	.8497
1.4	.8535	.8573	.8610	.8646	.8681	.8716	.8750	.8783	.8816	.8847
1.5	.8879	.8909	.8939	.8968	.8997	.9025	.9052	.9079	.9105	.9131
1.6	.9155	.9180	.9204	.9227	.9249	.9272	.9293	.9314	.9335	.9355
1.7	.9374	.9393	.9412	.9430	.9447	.9465	.9481	.9498	.9513	.9529
1.8	.9544	.9558	.9573	.9586	.9600	.9613	.9625	.9638	.9650	.9661
1.9	.9673	.9684	.9694	.9705	.9715	.9724	.9734	.9743	.9752	.9761
2.0	.9769	.9777	.9785	.9793	.9800	.9807	.9814	.9821	.9827	.9833
2.1	.9839	.9845	.9851	.9857	.9862	.9867	.9872	.9877	.9881	.9886
2.2	.9890	.9894	.9898	.9902	.9906	.9910	.9913	.9917	.9920	.9923
2.3	.9926	.9929	.9932	.9935	.9937	.9940	.9942	.9944	.9947	.9949
2.4	.9951	.9953	.9955	.9957	.9959	.9960	.9962	.9964	.9965	.9967

B= 2.0

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0001	.0004	.0009	.0016	.0025	.0036	.0049	.0064	.0081	.0100
0.1	.0120	.0143	.0168	.0194	.0222	.0253	.0285	.0319	.0355	.0392
0.2	.0431	.0472	.0515	.0560	.0606	.0654	.0703	.0754	.0807	.0861
0.3	.0916	.0973	.1032	.1092	.1153	.1216	.1279	.1345	.1411	.1479
0.4	.1547	.1617	.1688	.1760	.1833	.1907	.1982	.2058	.2135	.2212
0.5	.2290	.2369	.2449	.2529	.2610	.2692	.2774	.2857	.2940	.3023
0.6	.3107	.3191	.3276	.3361	.3446	.3531	.3617	.3702	.3788	.3874
0.7	.3960	.4045	.4131	.4217	.4302	.4388	.4473	.4558	.4643	.4727
0.8	.4811	.4895	.4979	.5062	.5145	.5227	.5309	.5390	.5471	.5551
0.9	.5631	.5710	.5789	.5867	.5944	.6021	.6097	.6173	.6247	.6321
1.0	.6394	.6467	.6539	.6609	.6680	.6749	.6817	.6885	.6952	.7018
1.1	.7083	.7148	.7211	.7274	.7335	.7396	.7456	.7515	.7573	.7631
1.2	.7687	.7743	.7797	.7851	.7904	.7956	.8007	.8057	.8106	.8155
1.3	.8202	.8249	.8295	.8340	.8384	.8427	.8469	.8511	.8552	.8591
1.4	.8630	.8669	.8706	.8743	.8778	.8814	.8848	.8881	.8914	.8946
1.5	.8977	.9008	.9038	.9067	.9095	.9123	.9150	.9176	.9202	.9227
1.6	.9251	.9275	.9298	.9321	.9343	.9364	.9385	.9405	.9425	.9444
1.7	.9463	.9481	.9499	.9516	.9532	.9548	.9564	.9579	.9594	.9608
1.8	.9622	.9636	.9649	.9661	.9674	.9686	.9697	.9708	.9719	.9729
1.9	.9740	.9749	.9759	.9768	.9777	.9785	.9794	.9802	.9809	.9817
2.0	.9824	.9831	.9838	.9844	.9850	.9856	.9862	.9868	.9873	.9878
2.1	.9883	.9888	.9893	.9897	.9902	.9906	.9910	.9914	.9917	.9921
2.2	.9924	.9928	.9931	.9934	.9937	.9939	.9942	.9945	.9947	.9950
2.3	.9952	.9954	.9956	.9958	.9960	.9962	.9964	.9965	.9967	.9968
2.4	.9970	.9971	.9973	.9974	.9975	.9976	.9978	.9979	.9980	.9981

B= 2.1

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0001	.0003	.0006	.0012	.0019	.0027	.0037	.0050	.0063	.0079
0.1	.0097	.0116	.0137	.0160	.0184	.0211	.0239	.0269	.0301	.0335
0.2	.0370	.0407	.0446	.0487	.0530	.0574	.0620	.0667	.0716	.0767
0.3	.0819	.0873	.0929	.0986	.1044	.1104	.1166	.1229	.1293	.1358
0.4	.1425	.1493	.1563	.1633	.1705	.1778	.1852	.1927	.2003	.2081
0.5	.2159	.2238	.2317	.2398	.2479	.2562	.2645	.2728	.2812	.2897
0.6	.2982	.3068	.3154	.3241	.3328	.3416	.3503	.3591	.3679	.3768
0.7	.3856	.3945	.4033	.4122	.4211	.4299	.4388	.4476	.4564	.4652
0.8	.4740	.4827	.4914	.5001	.5088	.5174	.5259	.5345	.5429	.5513
0.9	.5597	.5680	.5763	.5844	.5926	.6006	.6086	.6165	.6244	.6321
1.0	.6398	.6474	.6549	.6624	.6697	.6770	.6842	.6913	.6983	.7052
1.1	.7121	.7188	.7254	.7320	.7384	.7448	.7511	.7572	.7633	.7693
1.2	.7751	.7809	.7866	.7922	.7977	.8030	.8083	.8135	.8186	.8236
1.3	.8285	.8333	.8380	.8426	.8471	.8515	.8559	.8601	.8642	.8683
1.4	.8722	.8761	.8799	.8836	.8872	.8907	.8942	.8975	.9008	.9040
1.5	.9071	.9101	.9131	.9159	.9187	.9215	.9241	.9267	.9292	.9317
1.6	.9340	.9363	.9386	.9408	.9429	.9449	.9469	.9488	.9507	.9525
1.7	.9543	.9560	.9576	.9592	.9608	.9623	.9637	.9651	.9665	.9678
1.8	.9691	.9703	.9715	.9726	.9737	.9748	.9758	.9768	.9778	.9787
1.9	.9796	.9805	.9813	.9821	.9828	.9836	.9843	.9850	.9856	.9863
2.0	.9869	.9874	.9880	.9885	.9891	.9896	.9900	.9905	.9909	.9913
2.1	.9917	.9921	.9925	.9929	.9932	.9935	.9938	.9941	.9944	.9947
2.2	.9949	.9952	.9954	.9957	.9959	.9961	.9963	.9965	.9966	.9968
2.3	.9970	.9971	.9973	.9974	.9976	.9977	.9978	.9979	.9980	.9981
2.4	.9982	.9983	.9984	.9985	.9986	.9987	.9987	.9988	.9989	.9989

B= 2.2

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0002	.0004	.0008	.0014	.0020	.0029	.0039	.0050	.0063
0.1	.0078	.0094	.0112	.0131	.0153	.0176	.0201	.0227	.0256	.0286
0.2	.0318	.0351	.0387	.0424	.0463	.0503	.0546	.0590	.0635	.0683
0.3	.0732	.0783	.0835	.0890	.0945	.1003	.1061	.1122	.1184	.1247
0.4	.1312	.1378	.1446	.1515	.1585	.1657	.1730	.1804	.1879	.1956
0.5	.2033	.2112	.2192	.2272	.2354	.2437	.2520	.2604	.2689	.2775
0.6	.2861	.2949	.3036	.3125	.3213	.3303	.3392	.3482	.3573	.3664
0.7	.3755	.3846	.3937	.4029	.4120	.4212	.4303	.4395	.4486	.4578
0.8	.4669	.4760	.4851	.4941	.5031	.5121	.5210	.5299	.5388	.5476
0.9	.5563	.5650	.5736	.5822	.5907	.5991	.6075	.6158	.6240	.6321
1.0	.6402	.6481	.6560	.6638	.6715	.6791	.6867	.6941	.7014	.7087
1.1	.7158	.7228	.7298	.7366	.7433	.7500	.7565	.7629	.7692	.7754
1.2	.7815	.7875	.7934	.7991	.8048	.8104	.8158	.8212	.8264	.8315
1.3	.8366	.8415	.8463	.8510	.8556	.8601	.8645	.8688	.8730	.8771
1.4	.8811	.8850	.8888	.8925	.8961	.8997	.9031	.9064	.9097	.9128
1.5	.9159	.9189	.9218	.9246	.9274	.9300	.9326	.9351	.9376	.9399
1.6	.9422	.9444	.9466	.9487	.9507	.9526	.9545	.9563	.9581	.9598
1.7	.9614	.9630	.9646	.9660	.9675	.9688	.9702	.9714	.9727	.9739
1.8	.9750	.9761	.9772	.9782	.9792	.9801	.9810	.9819	.9827	.9835
1.9	.9843	.9850	.9857	.9864	.9870	.9877	.9883	.9888	.9894	.9899
2.0	.9904	.9909	.9913	.9918	.9922	.9926	.9930	.9933	.9937	.9940
2.1	.9943	.9946	.9949	.9952	.9954	.9957	.9959	.9961	.9963	.9965
2.2	.9967	.9969	.9971	.9972	.9974	.9976	.9977	.9978	.9979	.9981
2.3	.9982	.9983	.9984	.9985	.9986	.9987	.9987	.9988	.9989	.9990
2.4	.9990	.9991	.9991	.9992	.9992	.9993	.9993	.9994	.9994	.9995

B= 2.3

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0001	.0003	.0006	.0010	.0015	.0022	.0030	.0039	.0050
0.1	.0062	.0076	.0091	.0108	.0127	.0147	.0168	.0192	.0217	.0244
0.2	.0272	.0303	.0335	.0368	.0404	.0441	.0480	.0521	.0564	.0608
0.3	.0654	.0702	.0751	.0802	.0855	.0910	.0966	.1024	.1083	.1144
0.4	.1207	.1271	.1337	.1404	.1473	.1543	.1615	.1688	.1762	.1838
0.5	.1915	.1993	.2072	.2152	.2234	.2317	.2400	.2485	.2571	.2657
0.6	.2744	.2833	.2922	.3011	.3101	.3192	.3284	.3376	.3468	.3561
0.7	.3655	.3748	.3842	.3937	.4031	.4125	.4220	.4315	.4409	.4504
0.8	.4598	.4693	.4787	.4881	.4975	.5068	.5161	.5254	.5346	.5438
0.9	.5529	.5620	.5710	.5799	.5888	.5976	.6064	.6150	.6236	.6321
1.0	.6405	.6489	.6571	.6653	.6733	.6813	.6891	.6969	.7045	.7121
1.1	.7195	.7269	.7341	.7412	.7482	.7551	.7619	.7685	.7751	.7815
1.2	.7878	.7940	.8001	.8060	.8119	.8176	.8232	.8287	.8341	.8393
1.3	.8445	.8495	.8544	.8592	.8639	.8684	.8729	.8772	.8815	.8856
1.4	.8896	.8935	.8974	.9011	.9047	.9082	.9116	.9149	.9181	.9212
1.5	.9242	.9272	.9300	.9328	.9354	.9380	.9405	.9429	.9453	.9475
1.6	.9497	.9518	.9539	.9558	.9577	.9596	.9613	.9630	.9647	.9662
1.7	.9678	.9692	.9706	.9720	.9733	.9745	.9757	.9769	.9780	.9790
1.8	.9800	.9810	.9819	.9828	.9837	.9845	.9853	.9860	.9868	.9874
1.9	.9881	.9887	.9893	.9899	.9904	.9909	.9914	.9919	.9923	.9927
2.0	.9931	.9935	.9939	.9942	.9946	.9949	.9952	.9954	.9957	.9960
2.1	.9962	.9964	.9966	.9968	.9970	.9972	.9974	.9975	.9977	.9978
2.2	.9980	.9981	.9982	.9983	.9984	.9985	.9986	.9987	.9988	.9989
2.3	.9990	.9990	.9991	.9991	.9992	.9993	.9993	.9994	.9994	.9994
2.4	.9995	.9995	.9996	.9996	.9996	.9996	.9997	.9997	.9997	.9997

B= 2.4

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0001	.0002	.0004	.0008	.0012	.0017	.0023	.0031	.0040
0.1	.0050	.0061	.0074	.0089	.0105	.0122	.0141	.0162	.0184	.0208
0.2	.0233	.0261	.0290	.0320	.0353	.0387	.0423	.0460	.0500	.0541
0.3	.0584	.0629	.0675	.0723	.0773	.0825	.0879	.0934	.0991	.1050
0.4	.1110	.1172	.1236	.1301	.1368	.1437	.1507	.1578	.1651	.1726
0.5	.1802	.1879	.1958	.2038	.2119	.2202	.2285	.2370	.2456	.2543
0.6	.2631	.2720	.2810	.2901	.2993	.3085	.3178	.3272	.3366	.3461
0.7	.3557	.3653	.3749	.3846	.3943	.4040	.4138	.4235	.4333	.4431
0.8	.4529	.4626	.4724	.4821	.4919	.5016	.5112	.5209	.5305	.5400
0.9	.5495	.5590	.5684	.5777	.5869	.5951	.6053	.6143	.6232	.6321
1.0	.6409	.6496	.6582	.6667	.6751	.6834	.6916	.6997	.7076	.7155
1.1	.7232	.7309	.7384	.7458	.7530	.7602	.7672	.7741	.7809	.7875
1.2	.7940	.8004	.8067	.8128	.8188	.8247	.8305	.8361	.8416	.8470
1.3	.8522	.8573	.8623	.8672	.8719	.8765	.8810	.8854	.8897	.8938
1.4	.8978	.9017	.9055	.9092	.9128	.9163	.9196	.9229	.9260	.9291
1.5	.9320	.9349	.9376	.9403	.9429	.9454	.9478	.9501	.9523	.9545
1.6	.9565	.9585	.9605	.9623	.9641	.9658	.9674	.9690	.9705	.9719
1.7	.9733	.9747	.9759	.9771	.9783	.9794	.9805	.9815	.9825	.9834
1.8	.9843	.9851	.9859	.9867	.9874	.9881	.9888	.9894	.9900	.9906
1.9	.9911	.9916	.9921	.9926	.9930	.9934	.9938	.9942	.9946	.9949
2.0	.9952	.9955	.9958	.9961	.9963	.9965	.9968	.9970	.9972	.9974
2.1	.9975	.9977	.9978	.9980	.9981	.9983	.9984	.9985	.9986	.9987
2.2	.9988	.9989	.9989	.9990	.9991	.9992	.9992	.9993	.9993	.9994
2.3	.9994	.9995	.9995	.9995	.9996	.9996	.9996	.9997	.9997	.9997
2.4	.9997	.9998	.9998	.9998	.9998	.9998	.9998	.9999	.9999	.9999

B= 2.5

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0001	.0002	.0003	.0006	.0009	.0013	.0018	.0024	.0032
0.1	.0040	.0050	.0061	.0073	.0087	.0102	.0118	.0137	.0156	.0177
0.2	.0200	.0224	.0251	.0278	.0308	.0339	.0372	.0406	.0443	.0481
0.3	.0521	.0563	.0606	.0652	.0699	.0748	.0799	.0852	.0906	.0962
0.4	.1020	.1080	.1142	.1205	.1270	.1337	.1405	.1475	.1547	.1620
0.5	.1695	.1772	.1849	.1929	.2010	.2092	.2175	.2260	.2346	.2434
0.6	.2522	.2612	.2702	.2794	.2887	.2980	.3075	.3170	.3266	.3363
0.7	.3461	.3559	.3657	.3757	.3856	.3956	.4056	.4157	.4258	.4358
0.8	.4459	.4560	.4661	.4762	.4863	.4964	.5064	.5164	.5263	.5363
0.9	.5461	.5560	.5657	.5754	.5851	.5946	.6041	.6135	.6229	.6321
1.0	.6413	.6503	.6593	.6681	.6769	.6855	.6940	.7024	.7107	.7189
1.1	.7269	.7349	.7427	.7503	.7579	.7653	.7725	.7796	.7866	.7935
1.2	.8002	.8068	.8132	.8195	.8257	.8317	.8376	.8433	.8489	.8544
1.3	.8597	.8649	.8700	.8749	.8797	.8843	.8888	.8932	.8975	.9016
1.4	.9056	.9095	.9133	.9170	.9205	.9239	.9272	.9304	.9335	.9364
1.5	.9393	.9421	.9447	.9473	.9498	.9521	.9544	.9566	.9587	.9608
1.6	.9627	.9646	.9664	.9681	.9697	.9713	.9728	.9742	.9756	.9769
1.7	.9782	.9793	.9805	.9816	.9826	.9836	.9845	.9854	.9863	.9871
1.8	.9878	.9885	.9892	.9899	.9905	.9911	.9916	.9921	.9926	.9931
1.9	.9935	.9940	.9943	.9947	.9951	.9954	.9957	.9960	.9963	.9965
2.0	.9967	.9970	.9972	.9974	.9976	.9977	.9979	.9980	.9982	.9983
2.1	.9984	.9986	.9987	.9988	.9989	.9989	.9990	.9991	.9992	.9992
2.2	.9993	.9994	.9994	.9995	.9995	.9995	.9996	.9996	.9996	.9997
2.3	.9997	.9997	.9997	.9998	.9998	.9998	.9998	.9998	.9999	.9999
2.4	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999

B= 2.6

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0000	.0001	.0002	.0004	.0007	.0010	.0014	.0019	.0025
0.1	.0032	.0040	.0050	.0060	.0072	.0085	.0099	.0115	.0132	.0151
0.2	.0171	.0193	.0217	.0242	.0268	.0297	.0327	.0359	.0392	.0428
0.3	.0465	.0504	.0545	.0587	.0632	.0678	.0726	.0776	.0828	.0882
0.4	.0938	.0995	.1054	.1116	.1179	.1244	.1310	.1379	.1449	.1521
0.5	.1594	.1669	.1746	.1825	.1905	.1986	.2070	.2154	.2240	.2328
0.6	.2416	.2506	.2598	.2690	.2784	.2879	.2974	.3071	.3169	.3267
0.7	.3367	.3467	.3567	.3669	.3771	.3873	.3976	.4079	.4183	.4287
0.8	.4391	.4495	.4599	.4703	.4808	.4912	.5015	.5119	.5222	.5325
0.9	.5428	.5530	.5631	.5732	.5832	.5931	.6030	.6128	.6225	.6321
1.0	.6416	.6511	.6604	.6696	.6787	.6876	.6965	.7052	.7138	.7223
1.1	.7306	.7389	.7469	.7549	.7626	.7703	.7778	.7851	.7923	.7994
1.2	.8063	.8131	.8197	.8261	.8324	.8386	.8446	.8504	.8561	.8617
1.3	.8671	.8723	.8774	.8824	.8872	.8919	.8964	.9008	.9050	.9091
1.4	.9131	.9170	.9207	.9243	.9277	.9311	.9343	.9374	.9404	.9433
1.5	.9461	.9487	.9513	.9537	.9561	.9583	.9605	.9626	.9645	.9664
1.6	.9682	.9700	.9716	.9732	.9747	.9751	.9775	.9788	.9800	.9812
1.7	.9823	.9834	.9844	.9853	.9862	.9871	.9879	.9886	.9894	.9900
1.8	.9907	.9913	.9919	.9924	.9929	.9934	.9938	.9943	.9947	.9950
1.9	.9954	.9957	.9960	.9963	.9966	.9958	.9971	.9973	.9975	.9977
2.0	.9978	.9980	.9982	.9983	.9984	.9986	.9987	.9988	.9989	.9990
2.1	.9991	.9991	.9992	.9993	.9993	.9994	.9994	.9995	.9995	.9996
2.2	.9996	.9996	.9997	.9997	.9997	.9998	.9998	.9998	.9998	.9998
2.3	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.4	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999

B= 2.8

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0000	.0001	.0001	.0002	.0004	.0006	.0008	.0012	.0016
0.1	.0021	.0026	.0033	.0041	.0049	.0059	.0070	.0082	.0095	.0110
0.2	.0126	.0143	.0162	.0182	.0204	.0227	.0253	.0279	.0308	.0338
0.3	.0370	.0403	.0439	.0476	.0515	.0556	.0599	.0644	.0691	.0740
0.4	.0791	.0844	.0898	.0955	.1014	.1075	.1137	.1202	.1269	.1338
0.5	.1408	.1481	.1555	.1632	.1710	.1790	.1872	.1955	.2041	.2128
0.6	.2216	.2307	.2399	.2492	.2587	.2683	.2781	.2880	.2980	.3081
0.7	.3184	.3287	.3392	.3497	.3604	.3711	.3819	.3927	.4036	.4145
0.8	.4255	.4366	.4476	.4587	.4698	.4808	.4919	.5030	.5140	.5250
0.9	.5360	.5470	.5579	.5687	.5795	.5902	.6008	.6113	.6218	.6321
1.0	.6424	.6525	.6625	.6724	.6822	.6919	.7014	.7108	.7200	.7291
1.1	.7380	.7468	.7554	.7638	.7721	.7802	.7882	.7960	.8036	.8110
1.2	.8183	.8254	.8323	.8390	.8455	.8519	.8581	.8641	.8700	.8757
1.3	.8812	.8865	.8916	.8966	.9014	.9061	.9106	.9149	.9191	.9231
1.4	.9270	.9307	.9343	.9377	.9410	.9442	.9472	.9501	.9528	.9555
1.5	.9580	.9604	.9627	.9649	.9670	.9690	.9709	.9727	.9744	.9760
1.6	.9775	.9789	.9803	.9816	.9828	.9840	.9851	.9861	.9870	.9879
1.7	.9888	.9896	.9903	.9910	.9917	.9923	.9929	.9934	.9939	.9944
1.8	.9948	.9952	.9956	.9960	.9963	.9966	.9969	.9971	.9974	.9976
1.9	.9978	.9980	.9982	.9983	.9985	.9986	.9987	.9989	.9990	.9991
2.0	.9991	.9992	.9993	.9994	.9994	.9995	.9995	.9996	.9996	.9997
2.1	.9997	.9997	.9998	.9998	.9998	.9998	.9998	.9999	.9999	.9999
2.2	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.3	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2.4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

B= 2.7

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0000	.0001	.0002	.0003	.0005	.0008	.0011	.0015	.0020
0.1	.0026	.0033	.0040	.0049	.0059	.0071	.0083	.0097	.0112	.0129
0.2	.0147	.0166	.0187	.0210	.0234	.0260	.0287	.0316	.0347	.0380
0.3	.0414	.0451	.0489	.0529	.0571	.0614	.0660	.0707	.0757	.0808
0.4	.0861	.0916	.0973	.1032	.1093	.1156	.1221	.1288	.1356	.1426
0.5	.1499	.1572	.1648	.1726	.1805	.1886	.1968	.2053	.2138	.2226
0.6	.2315	.2405	.2497	.2590	.2684	.2780	.2876	.2974	.3073	.3173
0.7	.3274	.3376	.3479	.3582	.3687	.3791	.3897	.4003	.4109	.4216
0.8	.4323	.4430	.4537	.4645	.4752	.4860	.4967	.5074	.5181	.5288
0.9	.5394	.5500	.5605	.5709	.5813	.5917	.6019	.6121	.6221	.6321
1.0	.6420	.6518	.6614	.6710	.6804	.6898	.6989	.7080	.7169	.7257
1.1	.7343	.7428	.7512	.7594	.7674	.7753	.7830	.7906	.7980	.8052
1.2	.8123	.8193	.8260	.8326	.8390	.8453	.8514	.8574	.8631	.8688
1.3	.8742	.8795	.8846	.8896	.8944	.8991	.9036	.9080	.9122	.9163
1.4	.9202	.9240	.9277	.9312	.9346	.9378	.9410	.9440	.9469	.9496
1.5	.9523	.9548	.9573	.9596	.9618	.9639	.9660	.9679	.9697	.9715
1.6	.9732	.9747	.9763	.9777	.9790	.9803	.9816	.9827	.9838	.9849
1.7	.9858	.9868	.9876	.9885	.9892	.9900	.9906	.9913	.9919	.9925
1.8	.9930	.9935	.9940	.9944	.9948	.9952	.9956	.9959	.9962	.9965
1.9	.9968	.9970	.9973	.9975	.9977	.9979	.9980	.9982	.9984	.9985
2.0	.9986	.9987	.9988	.9989	.9990	.9991	.9992	.9993	.9993	.9994
2.1	.9995	.9995	.9995	.9996	.9996	.9997	.9997	.9997	.9998	.9998
2.2	.9998	.9998	.9998	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.3	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.4	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999

B= 2.9

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0000	.0000	.0001	.0002	.0003	.0004	.0007	.0009	.0013
0.1	.0017	.0021	.0027	.0033	.0041	.0049	.0058	.0069	.0081	.0094
0.2	.0108	.0123	.0140	.0158	.0178	.0199	.0222	.0246	.0272	.0300
0.3	.0329	.0361	.0394	.0428	.0465	.0504	.0544	.0587	.0631	.0677
0.4	.0726	.0776	.0829	.0883	.0940	.0999	.1059	.1122	.1187	.1254
0.5	.1323	.1394	.1467	.1542	.1619	.1698	.1779	.1862	.1947	.2033
0.6	.2122	.2212	.2304	.2398	.2493	.2590	.2688	.2788	.2889	.2991
0.7	.3095	.3200	.3307	.3414	.3522	.3631	.3741	.3852	.3964	.4076
0.8	.4189	.4302	.4415	.4529	.4643	.4757	.4871	.4985	.5099	.5213
0.9	.5327	.5440	.5552	.5664	.5776	.5887	.5997	.6106	.6214	.6321
1.0	.6427	.6532	.6636	.6739	.6840	.6940	.7038	.7135	.7230	.7324
1.1	.7416	.7507	.7596	.7683	.7768	.7852	.7933	.8013	.8091	.8167
1.2	.8241	.8314	.8384	.8453	.8519	.8584	.8647	.8708	.8766	.8824
1.3	.8879	.8932	.8984	.9034	.9082	.9128	.9172	.9215	.9256	.9296
1.4	.9334	.9370	.9405	.9438	.9470	.9500	.9529	.9557	.9584	.9609
1.5	.9633	.9655	.9677	.9697	.9717	.9735	.9753	.9769	.9785	.9799
1.6	.9813	.9826	.9838	.9850	.9861	.9871	.9880	.9889	.9897	.9905
1.7	.9913	.9919	.9926	.9932	.9937	.9942	.9947	.9951	.9955	.9959
1.8	.9963	.9966	.9969	.9972	.9974	.9976	.9979	.9980	.9982	.9984
1.9	.9985	.9987	.9988	.9989	.9990	.9991	.9992	.9993	.9994	.9994
2.0	.9995	.9995	.9996	.9996	.9997	.9997	.9997	.9998	.9998	.9998
2.1	.9998	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.2	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2.3	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2.4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

B= 3.0

X	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10
0.0	.0000	.0000	.0000	.0001	.0001	.0002	.0003	.0005	.0007	.0010
0.1	.0013	.0017	.0022	.0027	.0034	.0041	.0049	.0058	.0068	.0080
0.2	.0092	.0106	.0121	.0137	.0155	.0174	.0195	.0217	.0241	.0266
0.3	.0294	.0322	.0353	.0385	.0420	.0456	.0494	.0534	.0576	.0620
0.4	.0666	.0714	.0764	.0817	.0871	.0927	.0986	.1047	.1110	.1175
0.5	.1242	.1312	.1383	.1457	.1533	.1611	.1691	.1773	.1857	.1943
0.6	.2031	.2121	.2212	.2306	.2401	.2499	.2597	.2698	.2800	.2904
0.7	.3009	.3115	.3223	.3332	.3442	.3553	.3665	.3778	.3892	.4007
0.8	.4122	.4238	.4355	.4472	.4589	.4706	.4824	.4941	.5059	.5176
0.9	.5293	.5410	.5526	.5642	.5757	.5872	.5986	.6098	.6210	.6321
1.0	.6431	.6540	.6647	.6753	.6858	.6961	.7063	.7163	.7261	.7358
1.1	.7453	.7546	.7638	.7727	.7815	.7901	.7984	.8066	.8146	.8224
1.2	.8299	.8373	.8445	.8514	.8582	.8647	.8711	.8772	.8831	.8889
1.3	.8944	.8997	.9049	.9098	.9146	.9192	.9236	.9278	.9318	.9357
1.4	.9394	.9429	.9463	.9495	.9526	.9555	.9583	.9609	.9634	.9658
1.5	.9680	.9702	.9722	.9741	.9759	.9775	.9791	.9806	.9820	.9834
1.6	.9846	.9858	.9868	.9879	.9888	.9897	.9905	.9913	.9920	.9926
1.7	.9933	.9938	.9944	.9948	.9953	.9957	.9961	.9964	.9968	.9971
1.8	.9973	.9976	.9978	.9980	.9982	.9984	.9986	.9987	.9988	.9990
1.9	.9991	.9992	.9992	.9993	.9994	.9995	.9995	.9996	.9996	.9997
2.0	.9997	.9997	.9998	.9998	.9998	.9998	.9999	.9999	.9999	.9999
2.1	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999	.9999
2.2	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2.3	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2.4	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

14 HEURES 12 MINUTES 38 SECONDES

β x	3.10	3.20	3.20	3.40	3.50	3.60	3.70	3.80	3.90	4.00
1.10	.7391	.7425	.7458	.7491	.7524	.7557	.7590	.7622	.7655	.7687
1.20	.8279	.8334	.8386	.8441	.8494	.8545	.8596	.8646	.8695	.8743
1.30	.8952	.9013	.9072	.9128	.9183	.9236	.9286	.9335	.9381	.9425
1.40	.9415	.9469	.9519	.9567	.9611	.9652	.9670	.9724	.9756	.9785
1.50	.9702	.9743	.9779	.9811	.9840	.9865	.9889	.9906	.9923	.9937
1.60	.9863	.9889	.9911	.9929	.9944	.9956	.9966	.9974	.9981	.9986
1.70	.9944	.9958	.9969	.9977	.9983	.9988	.9992	.9995	.9996	.9998
1.80	.9979	.9986	.9990	.9994	.9996	.9998	.9998	.9999	.9999	.
1.90	.9993	.9996	.9998	.9999	.9999	.	.	.	.	.
2.00	.9998	.9999	.9999	.	.	.	.	.	.	.

β x	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	4.00
0.10	.0008	.0006	.0005	.0004	.0003	.0003	.0002	.0002	.0001	.0001
0.20	.0068	.0058	.0049	.0042	.0036	.0030	.0026	.0022	.0019	.0016
0.30	.0237	.0210	.0186	.0165	.0147	.0130	.0116	.0103	.0091	.0081
0.40	.0567	.0519	.0475	.0434	.0397	.0363	.0331	.0303	.0277	.0253
0.50	.1101	.1031	.0965	.0904	.0846	.0792	.0741	.0693	.0648	.0606
0.60	.1856	.1772	.1692	.1615	.1541	.1470	.1402	.1337	.1275	.1216
0.70	.2818	.2734	.2652	.2572	.2495	.2419	.2345	.2273	.2203	.2135
0.80	.3939	.3872	.3805	.3739	.3674	.3610	.3546	.3484	.3422	.3361
0.90	.5139	.5102	.5065	.5029	.4992	.4956	.4919	.4883	.4847	.4811
1.00	.6321	.6321	.6321	.6321	.6321	.6321	.6321	.6321	.6321	.6321