Probability is a number that is assigned to each member of a collection of events from a random experiment that satisfies the following properties:

If S is the sample space and E is any event in a random experiment,

- (1) P(S) = 1
- $(2) \quad 0 \le P(E) \le 1$
- (3) For two events  $E_1$  and  $E_2$  with  $E_1 \cap E_2 = \emptyset$

$$P(E_1 \cup E_2) = P(E_1) + P(E_2)$$

The preceding example illustrates that the probability of A or B is interpreted as  $P(A \cup B)$  and that the following general addition rule applies.

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$
 (2-1)

$$P(A \cup B \cup C) = P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C) + P(A \cap B \cap C)$$
(2-3)

A collection of events,  $E_1, E_2, \ldots, E_k$ , is said to be mutually exclusive if for all pairs,

$$E_i \cap E_j = \emptyset$$

For a collection of mutually exclusive events,

$$P(E_1 \cup E_2 \cup ... \cup E_k) = P(E_1) + P(E_2) + ... P(E_k)$$
 (2-4)

The conditional probability of an event B given an event A, denoted as P(B|A), is

$$P(B|A) = P(A \cap B)/P(A)$$
 (2-5)

for P(A) > 0.

**Multiplication Rule** 

$$P(A \cap B) = P(B|A)P(A) = P(A|B)P(B)$$
 (2-6)

Total Probability Rule (two events)

For any events A and B,

$$P(B) = P(B \cap A) + P(B \cap A') = P(B|A)P(A) + P(B|A')P(A')$$
 (2-7)

Two events are independent if any one of the following equivalent statements is true:

- (1) P(A|B) = P(A)
- $(2) \quad P(B|A) = P(B)$

$$(3) \quad P(A \cap B) = P(A)P(B) \tag{2-9}$$

The events  $E_1, E_2, \ldots, E_n$  are independent if and only if for any subset of these events  $E_{i_1}, E_{i_2}, \ldots, E_{i_k}$ ,

$$P(E_{i_1} \cap E_{i_2} \cap \dots \cap E_{i_k}) = P(E_{i_k}) \times P(E_{i_k}) \times \dots \times P(E_{i_k})$$
 (2-10)

$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}$$
 for  $P(B) > 0$  (2-11)

The cumulative distribution function of a discrete random variable X, denoted as F(x), is

$$F(x) = P(X \le x) = \sum_{x_i \le x} f(x_i)$$

For a discrete random variable X, F(x) satisfies the following properties.

- (1)  $F(x) = P(X \le x) = \sum_{x_i \le x} f(x_i)$
- $(2) \quad 0 \le F(x) \le 1$

(3) If 
$$x \le y$$
, then  $F(x) \le F(y)$  (3-2)

The mean or expected value of the discrete random variable X, denoted as  $\mu$  or E(X), is

$$\mu = E(X) = \sum_{x} x f(x) \tag{3-3}$$

The variance of X, denoted as  $\sigma^2$  or V(X), is

$$\sigma^2 = V(X) = E(X - \mu)^2 = \sum_x (x - \mu)^2 f(x) = \sum_x x^2 f(x) - \mu^2$$

The standard deviation of X is  $\sigma = \sqrt{\sigma^2}$ .

If X is a discrete random variable with probability mass function f(x),

$$E[h(X)] = \sum_{x} xh(x)f(x)$$
 (3-4)

Suppose X is a discrete uniform random variable on the consecutive integers a, a + 1, a + 2, ..., b, for  $a \le b$ . The mean of X is

$$\mu = E(X) = \frac{b+a}{2}$$

The variance of X is

$$\sigma^2 = \frac{(b-a+1)^2 - 1}{12} \tag{3-6}$$

A random experiment consists of n Bernoulli trials such that

- (1) The trials are independent
- (2) Each trial results in only two possible outcomes, labeled as "success" and "failure"
- (3) The probability of a success in each trial, denoted as p, remains constant

The random variable X that equals the number of trials that result in a success has a **binomial random variable** with parameters 0 and <math>n = 1, 2, ... The probability mass function of X is

$$f(x) = \binom{n}{x} p^{x} (1-p)^{n-x} \qquad x = 0, 1, ..., n$$
 (3-7)

In a series of Bernoulli trials (independent trials with constant probability p of a success), let the random variable X denote the number of trials until the first success. Then X is a geometric random variable with parameter 0 and

$$f(x) = (1 - p)^{x-1}p$$
  $x = 1, 2, ...$  (3-9)

If X is a geometric random variable with parameter p,

$$\mu = E(X) = 1/p$$
 and  $\sigma^2 = V(X) = (1 - p)/p^2$  (3-10)

The cumulative distribution function of a continuous random variable X is

$$F(x) = P(X \le x) = \int_{-\infty}^{x} f(u) du$$
 (4-3)

for  $-\infty < x < \infty$ 

Suppose X is a continuous random variable with probability density function f(x). The mean or expected value of X, denoted as  $\mu$  or E(X), is

$$\mu = E(X) = \int_{-\infty}^{\infty} x f(x) dx$$
 (4-4)

The variance of X, denoted as V(X) or  $\sigma^2$ , is

$$\sigma^2 = V(X) = \int_{-\infty}^{\infty} (x - \mu)^2 f(x) dx = \int_{-\infty}^{\infty} x^2 f(x) dx - \mu^2$$

The standard deviation of X is  $\sigma = \sqrt{\sigma^2}$ .

If X is a continuous random variable with probability density function f(x),

$$E[h(X)] = \int_{-\infty}^{\infty} h(x)f(x) dx$$
 (4-5)

A continuous random variable X with probability density function

$$f(x) = 1/(b-a), \quad a \le x \le b$$
 (4-6)

is a continuous uniform random variable.

If X is a continuous uniform random variable over  $a \le x \le b$ ,

$$\mu = E(X) = \frac{(a+b)}{2}$$
 and  $\sigma^2 = V(X) = \frac{(b-a)^2}{12}$  (4-7)

A random variable X with probability density function

$$f(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{\frac{-(x-\mu)^2}{2\sigma^2}} - \infty < x < \infty$$
 (4-8)

is a normal random variable with parameters  $\mu$ , where  $-\infty < \mu < \infty$ , and  $\sigma > 0$ . Also,

$$E(X) = \mu \text{ and } V(X) = \sigma^2$$
 (4-9)

and the notation  $N(\mu, \sigma^2)$  is used to denote the distribution. The mean and variance of X are shown to equal  $\mu$  and  $\sigma^2$ , respectively, at the end of this Section 5-6.

Suppose X is a normal random variable with mean  $\mu$  and variance  $\sigma^2$ . Then,

$$P(X \le x) = P\left(\frac{X - \mu}{\sigma} \le \frac{x - \mu}{\sigma}\right) = P(Z \le z) \tag{4-11}$$

where Z is a standard normal random variable, and  $z = \frac{(x - \mu)}{\sigma}$  is the z-value obtained by standardizing X.

The probability is obtained by entering Appendix Table II with  $z = (x - \mu)/\sigma$ .

The random variable X that equals the distance between successive counts of a Poisson process with mean  $\lambda > 0$  is an exponential random variable with parameter  $\lambda$ . The probability density function of X is

$$f(x) = \lambda e^{-\lambda x}$$
 for  $0 \le x < \infty$  (4-14)

If the random variable X has an exponential distribution with parameter  $\lambda$ ,

$$\mu = E(X) = \frac{1}{\lambda}$$
 and  $\sigma^2 = V(X) = \frac{1}{\lambda^2}$  (4-15)

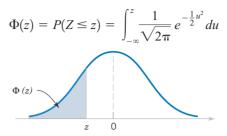


Table II Cumulative Standard Normal Distribution

Z	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02	-0.01	-0.00
-3.9	0.000033	0.000034	0.000036	0.000037	0.000039	0.000041	0.000042	0.000044	0.000046	0.000048
-3.8	0.000050	0.000052	0.000054	0.000057	0.000059	0.000062	0.000064	0.000067	0.000069	0.000072
-3.7	0.000075	0.000078	0.000082	0.000085	0.000088	0.000092	0.000096	0.000100	0.000104	0.000108
-3.6	0.000112	0.000117	0.000121	0.000126	0.000131	0.000136	0.000142	0.000147	0.000153	0.000159
-3.5	0.000165	0.000172	0.000179	0.000185	0.000193	0.000200	0.000208	0.000216	0.000224	0.000233
-3.4	0.000242	0.000251	0.000260	0.000270	0.000280	0.000291	0.000302	0.000313	0.000325	0.000337
-3.3	0.000350	0.000362	0.000376	0.000390	0.000404	0.000419	0.000434	0.000450	0.000467	0.000483
-3.2	0.000501	0.000519	0.000538	0.000557	0.000577	0.000598	0.000619	0.000641	0.000664	0.000687
-3.1	0.000711	0.000736	0.000762	0.000789	0.000816	0.000845	0.000874	0.000904	0.000935	0.000968
-3.0	0.001001	0.001035	0.001070	0.001107	0.001144	0.001183	0.001223	0.001264	0.001306	0.001350
-2.9	0.001395	0.001441	0.001489	0.001538	0.001589	0.001641	0.001695	0.001750	0.001807	0.001866
-2.8	0.001926	0.001988	0.002052	0.002118	0.002186	0.002256	0.002327	0.002401	0.002477	0.002555
-2.7	0.002635	0.002718	0.002803	0.002890	0.002980	0.003072	0.003167	0.003264	0.003364	0.003467
-2.6	0.003573	0.003681	0.003793	0.003907	0.004025	0.004145	0.004269	0.004396	0.004527	0.004661
-2.5	0.004799	0.004940	0.005085	0.005234	0.005386	0.005543	0.005703	0.005868	0.006037	0.006210
-2.4	0.006387	0.006569	0.006756	0.006947	0.007143	0.007344	0.007549	0.007760	0.007976	0.008198
-2.3	0.008424	0.008656	0.008894	0.009137	0.009387	0.009642	0.009903	0.010170	0.010444	0.010724
-2.2	0.011011	0.011304	0.011604	0.011911	0.012224	0.012545	0.012874	0.013209	0.013553	0.013903
-2.1	0.014262	0.014629	0.015003	0.015386	0.015778	0.016177	0.016586	0.017003	0.017429	0.017864
-2.0	0.018309	0.018763	0.019226	0.019699	0.020182	0.020675	0.021178	0.021692	0.022216	0.022750
-1.9	0.023295	0.023852	0.024419	0.024998	0.025588	0.026190	0.026803	0.027429	0.028067	0.028717
-1.8	0.029379	0.030054	0.030742	0.031443	0.032157	0.032884	0.033625	0.034379	0.035148	0.035930
-1.7	0.036727	0.037538	0.038364	0.039204	0.040059	0.040929	0.041815	0.042716	0.043633	0.044565
-1.6	0.045514	0.046479	0.047460	0.048457	0.049471	0.050503	0.051551	0.052616	0.053699	0.054799
-1.5	0.055917	0.057053	0.058208	0.059380	0.060571	0.061780	0.063008	0.064256	0.065522	0.066807
-1.4	0.068112	0.069437	0.070781	0.072145	0.073529	0.074934	0.076359	0.077804	0.079270	0.080757
-1.3	0.082264	0.083793	0.085343	0.086915	0.088508	0.090123	0.091759	0.093418	0.095098	0.096801
-1.2	0.098525	0.100273	0.102042	0.103835	0.105650	0.107488	0.109349	0.111233	0.113140	0.115070
-1.1	0.117023	0.119000	0.121001	0.123024	0.125072	0.127143	0.129238	0.131357	0.133500	0.135666
-1.0	0.137857	0.140071	0.142310	0.144572	0.146859	0.149170	0.151505	0.153864	0.156248	0.158655
-0.9	0.161087	0.163543	0.166023	0.168528	0.171056	0.173609	0.176185	0.178786	0.181411	0.184060
-0.8	0.186733	0.189430	0.192150	0.194894	0.197662	0.200454	0.203269	0.206108	0.208970	0.211855
-0.7	0.214764	0.217695	0.220650	0.223627	0.226627	0.229650	0.232695	0.235762	0.238852	0.241964
-0.6	0.245097	0.248252	0.251429	0.254627	0.257846	0.261086	0.264347	0.267629	0.270931	0.274253
-0.5	0.277595	0.280957	0.284339	0.287740	0.291160	0.294599	0.298056	0.301532	0.305026	0.308538
-0.4	0.312067	0.315614	0.319178	0.322758	0.326355	0.329969	0.333598	0.337243	0.340903	0.344578
-0.3	0.348268	0.351973	0.355691	0.359424	0.363169	0.366928	0.370700	0.374484	0.378281	0.382089
-0.2	0.385908	0.389739	0.393580	0.397432	0.401294	0.405165	0.409046	0.412936	0.416834	0.420740
-0.1	0.424655	0.428576	0.432505	0.436441	0.440382	0.444330	0.448283	0.452242	0.456205	0.460172
0.0	0.464144	0.468119	0.472097	0.476078	0.480061	0.484047	0.488033	0.492022	0.496011	0.500000

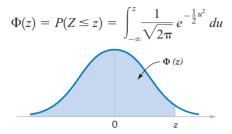


Table II Cumulative Standard Normal Distribution (continued)

z     0.00     0.01     0.02     0.03     0.04     0.05     0.06     0.07     0.08     0.09       0.0     0.500000     0.5039828     0.543795     0.547788     0.551967     0.555660     0.559618     0.563559     0.57220     0.527903     0.513160     0.575345       0.2     0.579260     0.583166     0.587064     0.590954     0.594835     0.598706     0.602568     0.60420     0.610261     0.61711     0.621719     0.625516     0.6629300     0.633072     0.636813     0.640774     0.668402     0.610261     0.668733     0.761742     0.680820     0.681732     0.668733     0.5     0.691462     0.6694074     0.698488     0.701444     0.705401     0.78840     0.71260     0.715661     0.719043     0.75461     0.722747     0.729069     0.732371     0.735653     0.738914     0.745174     0.745871     0.75465     0.808793     0.78236     0.732373     0.776373     0.779350     0.773373     0.776373     0.779350     0.773373     0.776373     0.7785236     0.782346     <	Table 11 Cultivative Standard Normal Distribution (condition)										
0.1     0.539828     0.543795     0.547758     0.591717     0.555760     0.559818     0.567360     0.579260     0.5783160     0.578064     0.590954     0.594835     0.598706     0.602568     0.604620     0.610261     0.614092       0.3     0.617911     0.621719     0.625216     0.629300     0.633072     0.636831     0.640576     0.644802     0.648027     0.651732       0.4     0.655422     0.659097     0.662757     0.660402     0.705401     0.770460     0.712606     0.712601     0.710440     0.705401     0.76840     0.712606     0.715601     0.719040     0.724051       0.6     0.725747     0.729069     0.732371     0.735630     0.770373     0.776373     0.776373     0.776373     0.776373     0.776373     0.776373     0.776373     0.779350     0.81347     0.813475     0.841345     0.818389     0.82141     0.823815     0.826391     0.828444     0.831472     0.83660     0.88107     0.880131     0.826424     0.85428     0.857970     0.881045     0.880610     0.882977	Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07		0.09
0.2     0.579260     0.583166     0.587064     0.599954     0.594335     0.598706     0.602568     0.604209     0.610261     0.610261     0.610361     0.610361     0.610361     0.610361     0.610361     0.610361     0.610361     0.610361     0.611732       0.4     0.655422     0.6590997     0.662757     0.666402     0.670361     0.673645     0.677242     0.680822     0.68436     0.673045       0.5     0.691462     0.694974     0.698468     0.70144     0.705401     0.708840     0.712560     0.715661     0.719043     0.722405       0.6     0.725747     0.729069     0.733371     0.733563     0.738140     0.742154     0.742373     0.748571     0.751948     0.754903     0.782370     0.783300     0.773350     0.773373     0.773373     0.773373     0.738500     0.813640     0.818548     0.81541     0.828141     0.828381     0.853141     0.833472     0.836473     0.836473     0.81367     0.813267       1.2     0.884334     0.866503     0.886673     0.870625 <td< th=""><th>0.0</th><td>0.500000</td><td>0.503989</td><td>0.507978</td><td>0.511967</td><td>0.515953</td><td>0.519939</td><td>0.532922</td><td>0.527903</td><td>0.531881</td><td>0.535856</td></td<>	0.0	0.500000	0.503989	0.507978	0.511967	0.515953	0.519939	0.532922	0.527903	0.531881	0.535856
0.3     0.617911     0.625119     0.625516     0.629300     0.633072     0.636381     0.640870     0.648027     0.648730     0.68733       0.4     0.659462     0.699474     0.698468     0.701941     0.708401     0.712260     0.715661     0.719403     0.722405       0.6     0.725747     0.729069     0.732371     0.735653     0.738014     0.742154     0.745373     0.748571     0.751748     0.754903       0.7     0.758036     0.761148     0.764238     0.767305     0.773373     0.776373     0.779350     0.783373     0.779350     0.782305     0.882312     0.80116     0.882312     0.80116     0.882312     0.80116     0.882312     0.80116     0.882312     0.80212     0.882312     0.82822	0.1	0.539828	0.543795	0.547758	0.551717	0.555760	0.559618	0.563559	0.567495	0.571424	0.575345
0.4     0.655422     0.659097     0.662757     0.66402     0.70031     0.673645     0.677242     0.680822     0.684386     0.687933       0.5     0.691462     0.694974     0.698468     0.701944     0.705401     0.712600     0.712600     0.715601     0.719043     0.722405       0.6     0.725747     0.729069     0.732371     0.73503     0.73333     0.76373     0.773370     0.773370     0.773370     0.773370     0.773370     0.779350     0.782305     0.782305     0.785236       0.8     0.781845     0.791300     0.793892     0.796731     0.799540     0.802338     0.801016     0.813267     0.813267       1.0     0.841345     0.838589     0.821214     0.823841     0.831402     0.885600     0.886430     0.870762     0.872828     0.879428     0.875900     0.859299     0.862143       1.1     0.843340     0.886860     0.888767     0.890510     0.892312     0.893300     0.856165     0.897978     0.889277     0.901432       1.2     0.884390 <th< th=""><th>0.2</th><td>0.579260</td><td>0.583166</td><td>0.587064</td><td>0.590954</td><td>0.594835</td><td>0.598706</td><td>0.602568</td><td>0.606420</td><td>0.610261</td><td>0.614092</td></th<>	0.2	0.579260	0.583166	0.587064	0.590954	0.594835	0.598706	0.602568	0.606420	0.610261	0.614092
0.6     0.691462     0.694974     0.698468     0.701944     0.705401     0.708840     0.712500     0.715671     0.715671     0.732571     0.735653     0.761148     0.746238     0.763705     0.773370     0.773373     0.773573     0.779350     0.813686     0.818589     0.821214     0.823815     0.826391     0.828944     0.831472     0.833977     0.836431     0.866500     0.868643     0.870762     0.872857     0.874287     0.854920     0.859999     0.881000     0.882977       1.2     0.884930     0.886600     0.886643     0.870762     0.872857     0.874280     0.896165     0.889989     0.881000     0.882977       1.2     0.8844930     0.986201     0.996221     0.99877     0.911402     0.913085 <t< th=""><th>0.3</th><th>0.617911</th><th>0.621719</th><th>0.625516</th><th>0.629300</th><th>0.633072</th><th>0.636831</th><th>0.640576</th><th>0.644309</th><th>0.648027</th><th>0.651732</th></t<>	0.3	0.617911	0.621719	0.625516	0.629300	0.633072	0.636831	0.640576	0.644309	0.648027	0.651732
0.6     0.725747     0.729069     0.732371     0.735653     0.738914     0.742154     0.745373     0.748571     0.751748     0.754903       0.7     0.758036     0.761148     0.764238     0.767305     0.773373     0.776373     0.779350     0.782305     0.832977     0.834313     0.84133     0.84133     0.84133     0.84133     0.84133     0.848495     0.880810     0.881843     0.886860     0.888767     0.890651     0.892512     0.894290     0.878999     0.882977     0.911475     0.933193     0.934478     0.935631     0.992364     0.992364     0.992366     0.923641     0.9923661     0.923642     0.992366	0.4	0.655422	0.659097	0.662757	0.666402	0.670031	0.673645	0.677242	0.680822	0.684386	0.687933
0.7     0.758036     0.761148     0.764238     0.763705     0.770350     0.773373     0.776373     0.779350     0.782305     0.782305       0.8     0.788145     0.791030     0.793892     0.796731     0.799546     0.802338     0.805106     0.807850     0.810570     0.813267       1.0     0.815494     0.818589     0.82318     0.826391     0.828944     0.831472     0.833977     0.836457     0.838813       1.1     0.864334     0.866500     0.868643     0.87062     0.872877     0.876976     0.878999     0.881000     0.882977       1.2     0.884390     0.86660     0.888767     0.890611     0.892512     0.884350     0.886650     0.888767     0.890615     0.893520     0.891655     0.897958     0.899727     0.901475       1.3     0.903199     0.904902     0.906582     0.908241     0.998877     0.911492     0.914657     0.916207     0.917736       1.4     0.91243     0.92730     0.922146     0.933621     0.993820     0.994620     0.941457 <th< th=""><th>0.5</th><th>0.691462</th><th>0.694974</th><th>0.698468</th><th>0.701944</th><th>0.705401</th><th>0.708840</th><th>0.712260</th><th>0.715661</th><th>0.719043</th><th>0.722405</th></th<>	0.5	0.691462	0.694974	0.698468	0.701944	0.705401	0.708840	0.712260	0.715661	0.719043	0.722405
0.8     0.788145     0.791030     0.793892     0.796731     0.799546     0.802338     0.805106     0.807850     0.81570     0.813677     0.813677     0.813677     0.813677     0.832677       0.9     0.815940     0.818589     0.821214     0.823815     0.828944     0.831472     0.833977     0.836457     0.838913       1.0     0.841345     0.866500     0.868643     0.870762     0.872857     0.874928     0.876976     0.878999     0.881000     0.882977       1.2     0.884930     0.88660     0.888767     0.890651     0.892512     0.894350     0.896165     0.897958     0.899727     0.901475       1.3     0.903199     0.904902     0.906582     0.908211     0.909877     0.911402     0.913085     0.914657     0.91675     0.911475       1.4     0.91243     0.920418     0.903572     0.914792     0.943684     0.944861     0.924671     0.927855     0.922919     0.93563     0.931888       1.5     0.933193     0.934478     0.935784     0.958184 <td< th=""><th>0.6</th><th>0.725747</th><th>0.729069</th><th>0.732371</th><th>0.735653</th><th>0.738914</th><th>0.742154</th><th>0.745373</th><th>0.748571</th><th>0.751748</th><th>0.754903</th></td<>	0.6	0.725747	0.729069	0.732371	0.735653	0.738914	0.742154	0.745373	0.748571	0.751748	0.754903
0.9     0.815940     0.818589     0.821214     0.823815     0.826391     0.828944     0.831472     0.833977     0.836457     0.838913       1.0     0.841345     0.843752     0.846136     0.848495     0.850830     0.853141     0.855428     0.857690     0.859929     0.862143       1.1     0.86433     0.86660     0.888677     0.890651     0.872857     0.87492     0.876876     0.878997     0.8182977       1.2     0.884930     0.886860     0.888767     0.890651     0.892512     0.894350     0.896165     0.897978     0.901475       1.3     0.903199     0.904902     0.906582     0.908241     0.90877     0.911492     0.913655     0.914657     0.916207     0.917736       1.4     0.919243     0.920730     0.922196     0.923620     0.934220     0.9340820     0.941792     0.942947     0.940820     0.941792     0.942947     0.940820     0.941792     0.942947     0.944083       1.6     0.945201     0.946301     0.947384     0.958185     0.950071	0.7	0.758036	0.761148	0.764238	0.767305	0.770350	0.773373	0.776373	0.779350	0.782305	0.785236
1.0     0.841345     0.843752     0.846136     0.848495     0.850830     0.85141     0.855428     0.857690     0.859929     0.862143       1.1     0.864334     0.866500     0.868643     0.870762     0.872857     0.874928     0.876976     0.878999     0.881000     0.882977       1.2     0.884930     0.886660     0.888767     0.890651     0.892512     0.894350     0.896165     0.897958     0.8997972     0.901475       1.3     0.903199     0.904902     0.906582     0.908241     0.909877     0.911492     0.913085     0.914667     0.916207     0.91736       1.4     0.919243     0.920730     0.922196     0.923641     0.905876     0.92471     0.927855     0.92919     0.930563     0.931888       1.5     0.933193     0.934478     0.935434     0.938220     0.938229     0.951543     0.955321     0.9544083       1.6     0.945201     0.946301     0.947344     0.948497     0.959414     0.960796     0.961636     0.962462     0.96327       1.8<	0.8	0.788145	0.791030	0.793892	0.796731	0.799546	0.802338	0.805106	0.807850	0.810570	0.813267
1.1     0.864334     0.866500     0.868643     0.870762     0.872857     0.874928     0.876976     0.878999     0.881000     0.882977       1.2     0.884930     0.886860     0.888767     0.890651     0.892512     0.894350     0.896165     0.899727     0.901475       1.3     0.903199     0.904902     0.906582     0.908241     0.905076     0.91492     0.913085     0.916207     0.916207     0.91736       1.4     0.919243     0.920730     0.922196     0.923641     0.9950560     0.924671     0.9297855     0.929219     0.930563     0.931888       1.5     0.933193     0.934478     0.935744     0.936992     0.938220     0.93429     0.940620     0.941792     0.942947     0.944881       1.6     0.945201     0.946301     0.947384     0.948497     0.950529     0.951543     0.956367     0.962426     0.963273       1.8     0.964070     0.964852     0.965261     0.96375     0.967116     0.9674412     0.975502     0.975581     0.976148     0.976705 <th>0.9</th> <th>0.815940</th> <th>0.818589</th> <th>0.821214</th> <th>0.823815</th> <th>0.826391</th> <th>0.828944</th> <th>0.831472</th> <th>0.833977</th> <th>0.836457</th> <th>0.838913</th>	0.9	0.815940	0.818589	0.821214	0.823815	0.826391	0.828944	0.831472	0.833977	0.836457	0.838913
1.2     0.884930     0.886860     0.888767     0.890651     0.892512     0.894350     0.896165     0.897958     0.899727     0.901475       1.3     0.903199     0.904902     0.906582     0.908241     0.902676     0.914071     0.91273     0.912073     0.912773     0.917736       1.4     0.91243     0.920730     0.922196     0.923641     0.92666     0.926471     0.927855     0.929219     0.930563     0.931888       1.6     0.945201     0.946301     0.947384     0.948449     0.949497     0.950529     0.951543     0.952540     0.953321     0.954486       1.7     0.955435     0.956367     0.957184     0.958185     0.959071     0.950941     0.960766     0.961636     0.962462     0.963273       1.8     0.964070     0.964852     0.956521     0.966375     0.967116     0.967843     0.968577     0.969258     0.999946     0.970261       1.9     0.977250     0.9777784     0.978308     0.978262     0.979318     0.998407     0.981691     0.988369	1.0	0.841345	0.843752	0.846136	0.848495	0.850830	0.853141	0.855428	0.857690	0.859929	0.862143
1.3     0.903199     0.904902     0.906582     0.908241     0.909877     0.911492     0.913085     0.914657     0.916207     0.91736       1.4     0.919243     0.920730     0.922196     0.923641     0.925066     0.92471     0.927855     0.929219     0.930563     0.931888       1.5     0.933193     0.934478     0.935744     0.936992     0.938220     0.93429     0.940620     0.941792     0.942947     0.94581       1.6     0.945201     0.946301     0.947384     0.948449     0.949497     0.950529     0.951543     0.952540     0.953521     0.954486       1.7     0.955435     0.965671     0.966375     0.967116     0.967843     0.968557     0.969258     0.969946     0.97621       1.9     0.971283     0.971784     0.978308     0.978822     0.979325     0.97818     0.980301     0.98774     0.981237     0.981237       2.1     0.982136     0.982571     0.9878126     0.987385     0.98810     0.988101     0.988774     0.98833     0.99024     0.9	1.1	0.864334	0.866500	0.868643	0.870762	0.872857	0.874928	0.876976	0.878999	0.881000	0.882977
1.4     0.919243     0.920730     0.922196     0.923641     0.925066     0.926471     0.927855     0.929219     0.930563     0.931888       1.5     0.933193     0.934478     0.935744     0.936992     0.938220     0.939429     0.940620     0.941792     0.942947     0.944083       1.6     0.945201     0.946301     0.947384     0.948449     0.949497     0.950529     0.951543     0.955240     0.953521     0.954486       1.7     0.955435     0.956367     0.957284     0.958185     0.959071     0.959941     0.960796     0.961636     0.962462     0.963273       1.8     0.964070     0.964852     0.965621     0.966375     0.967843     0.968557     0.969258     0.969946     0.970621       1.9     0.971283     0.971283     0.972571     0.973180     0.974412     0.975002     0.975581     0.969464     0.976052       2.0     0.987250     0.987784     0.988297     0.98308     0.998777     0.988030     0.990744     0.988299     0.983131     0.998250	1.2	0.884930	0.886860		0.890651	0.892512	0.894350		0.897958		0.901475
1.5     0.933193     0.934478     0.935744     0.936992     0.938220     0.934229     0.940620     0.941792     0.942947     0.944083       1.6     0.945201     0.946301     0.947384     0.948449     0.949497     0.950529     0.951543     0.952540     0.953521     0.95486       1.7     0.955435     0.956367     0.957284     0.958185     0.959071     0.959941     0.960796     0.961636     0.962462     0.963273       1.8     0.964070     0.964852     0.965621     0.966375     0.967116     0.967843     0.968557     0.969258     0.969946     0.970621       1.9     0.971283     0.971781     0.973119     0.973110     0.974181     0.985074     0.981631     0.976188     0.980301     0.980774     0.981237     0.981691       2.1     0.982136     0.982571     0.982997     0.983414     0.983823     0.984212     0.984614     0.984997     0.985371     0.985738       2.2     0.986097     0.9888830     0.990932     0.998776     0.988089     0.983966	1.3	0.903199	0.904902	0.906582	0.908241	0.909877	0.911492	0.913085	0.914657	0.916207	0.917736
1.6     0.945201     0.946301     0.947384     0.948449     0.949497     0.950529     0.951543     0.952540     0.953521     0.954486       1.7     0.955435     0.956367     0.957284     0.958185     0.959071     0.959941     0.960796     0.961636     0.962462     0.963273       1.8     0.964070     0.964852     0.965621     0.966375     0.967116     0.967843     0.968557     0.969946     0.970621       1.9     0.971283     0.971933     0.972571     0.973197     0.973810     0.974412     0.975002     0.975581     0.976148     0.976072       2.0     0.977250     0.9777784     0.978308     0.978282     0.979325     0.979818     0.98010     0.987274     0.981237     0.981691       2.1     0.982136     0.982977     0.983414     0.983823     0.984122     0.984497     0.985371     0.985338       2.2     0.986097     0.988560     0.988783     0.990097     0.990358     0.990633     0.991106     0.991344     0.991344     0.991346     0.994291					0.923641		0.926471	0.927855			0.931888
1.7     0.955435     0.956367     0.957284     0.958185     0.959071     0.959941     0.960796     0.961636     0.96462     0.963273       1.8     0.964070     0.964852     0.965621     0.966375     0.967116     0.967843     0.968557     0.969258     0.969946     0.970621       1.9     0.971283     0.971933     0.972571     0.973197     0.973810     0.974412     0.975002     0.975581     0.976148     0.976705       2.0     0.977250     0.977784     0.978308     0.97822     0.979325     0.97818     0.980301     0.980774     0.981237     0.981691       2.1     0.982136     0.982571     0.982979     0.983414     0.983823     0.984222     0.984614     0.984997     0.985373     0.98563     0.988696     0.988898       2.2     0.986097     0.988330     0.990097     0.990358     0.990613     0.998839     0.988396     0.988896     0.988898       2.3     0.998102     0.99240     0.992451     0.992555     0.992857     0.993053     0.991106 <td< th=""><th>1.5</th><th>0.933193</th><th></th><th>0.935744</th><th></th><th>0.938220</th><th>0.939429</th><th>0.940620</th><th>0.941792</th><th></th><th></th></td<>	1.5	0.933193		0.935744		0.938220	0.939429	0.940620	0.941792		
1.8     0.964070     0.964852     0.965621     0.966375     0.967116     0.967843     0.968557     0.969258     0.969946     0.970621       1.9     0.971283     0.971933     0.972571     0.973197     0.973810     0.974412     0.975002     0.975581     0.976148     0.976705       2.0     0.977250     0.9777784     0.978308     0.978822     0.979325     0.979818     0.980301     0.980774     0.981691       2.1     0.982136     0.982571     0.982997     0.983414     0.983823     0.984614     0.984997     0.985371     0.987378       2.2     0.986097     0.986447     0.986791     0.987156     0.987455     0.987776     0.988089     0.988396     0.988696     0.988898       2.3     0.989276     0.989556     0.989830     0.990097     0.990558     0.990633     0.991106     0.991344     0.991367       2.4     0.991802     0.99240     0.992497     0.994457     0.993053     0.99341     0.993613       2.5     0.993309     0.995473     0.99547	1.6	0.945201	0.946301		0.948449	0.949497		0.951543	0.952540	0.953521	
1.9     0.971283     0.971933     0.972571     0.973197     0.973810     0.974412     0.975002     0.975581     0.976148     0.976705       2.0     0.977250     0.977784     0.978308     0.978822     0.979325     0.979818     0.980301     0.980774     0.981237     0.981691       2.1     0.982136     0.982571     0.982997     0.983414     0.983823     0.984222     0.984614     0.984997     0.985371     0.985738       2.2     0.986097     0.986447     0.986791     0.987126     0.987455     0.987776     0.988089     0.988396     0.988696     0.988989       2.3     0.989276     0.989556     0.989830     0.990097     0.990358     0.990613     0.990863     0.991106     0.991344     0.991576       2.4     0.991802     0.992244     0.992451     0.992656     0.992857     0.993053     0.993444     0.993431     0.993613       2.5     0.993339     0.995473     0.995604     0.995731     0.995855     0.999575     0.996093     0.996207     0.996319	1.7	0.955435	0.956367	0.957284	0.958185	0.959071		0.960796	0.961636	0.962462	
2.0     0.977250     0.977784     0.978308     0.978822     0.979325     0.979818     0.980301     0.980774     0.981237     0.981691       2.1     0.982136     0.982571     0.982997     0.983414     0.983823     0.984222     0.984614     0.984997     0.985371     0.985738       2.2     0.986097     0.986447     0.986791     0.987126     0.987455     0.987776     0.988089     0.988396     0.988696     0.988989       2.3     0.989276     0.989556     0.989830     0.990097     0.990358     0.990613     0.990863     0.991106     0.991344     0.991576       2.4     0.991802     0.992024     0.992240     0.992451     0.992656     0.992857     0.993053     0.993244     0.993431     0.993613       2.5     0.993790     0.99363     0.994297     0.994457     0.994666     0.994915     0.995060     0.995201       2.6     0.995333     0.996636     0.996734     0.995731     0.995855     0.9950903     0.997207     0.997110     0.997197     0.997282				0.965621	0.966375			0.968557			
2.1     0.982136     0.982571     0.982997     0.983414     0.983823     0.984222     0.984614     0.984997     0.985371     0.985788       2.2     0.986097     0.986447     0.986791     0.987126     0.987455     0.987776     0.988089     0.988396     0.988696     0.988989       2.3     0.989276     0.989556     0.98830     0.990097     0.990358     0.990613     0.990863     0.991106     0.991344     0.991576       2.4     0.991802     0.992240     0.992451     0.992656     0.992857     0.993053     0.993244     0.993431     0.993613       2.5     0.993790     0.993963     0.994132     0.994297     0.994457     0.994614     0.994766     0.994915     0.995600     0.995201       2.6     0.995339     0.995473     0.995604     0.995731     0.995855     0.995975     0.996093     0.996207     0.996319     0.997365       2.8     0.997445     0.997523     0.997673     0.997444     0.997814     0.997882     0.997948     0.998012     0.998014 <th>1.9</th> <th></th> <th></th> <th>0.972571</th> <th></th> <th>0.973810</th> <th></th> <th>0.975002</th> <th>0.975581</th> <th>0.976148</th> <th></th>	1.9			0.972571		0.973810		0.975002	0.975581	0.976148	
2.20.9860970.9864470.9867910.9871260.9874550.9877760.9880890.9883960.9886960.9889892.30.9892760.9895560.9898300.9900970.9903580.9906130.9908630.9911060.9913440.9915762.40.9918020.9920240.9922400.9924510.9926560.9928570.9930530.9932440.9934310.9936132.50.9937900.9939630.9941320.9942970.9944570.9946140.9947660.9949150.9950600.9952012.60.9953390.9954730.9956040.9957310.9958550.9959750.9960930.9962070.9963190.9964272.70.9965330.9966360.9967360.9968330.9962880.9970200.9971100.9971970.9972820.9973652.80.9974450.9975230.9975990.9976730.9974440.9978140.9978820.9979480.9980120.9980742.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986053.00.9996500.9990650.9990760.9991260.9991550.9991840.9992110.9992380.9992640.9992893.20.9993130.9995330.9995500.9995660.9995810.9995960.9996100.9996240.9996380.9996503.40.9996630.9996750.9997840.9997850.9998740.9998790.9998		0.977250				0.979325		0.980301			
2.3     0.989276     0.989556     0.989830     0.990097     0.990358     0.990613     0.990863     0.991106     0.991344     0.991576       2.4     0.991802     0.992024     0.992451     0.992656     0.992857     0.993053     0.993244     0.993431     0.993613       2.5     0.993790     0.99363     0.994132     0.994297     0.994457     0.994614     0.994766     0.994915     0.995060     0.995201       2.6     0.995339     0.995473     0.995604     0.995731     0.995855     0.995975     0.996093     0.996207     0.996319     0.996427       2.7     0.996533     0.996636     0.996736     0.996833     0.996928     0.997020     0.997110     0.997197     0.997282     0.997365       2.8     0.997445     0.997523     0.997673     0.997444     0.997882     0.997948     0.998012     0.998074       2.9     0.998134     0.998752     0.998305     0.998359     0.998411     0.998462     0.998511     0.998559     0.998695       3.0     0.99865		0.982136	0.982571	0.982997	0.983414	0.983823	0.984222	0.984614	0.984997	0.985371	0.985738
2.40.9918020.9920240.9922400.9924510.9926560.9928570.9930530.9932440.9934310.9936132.50.9937900.9939630.9941320.9942970.9944570.9946140.9947660.9949150.9950600.9950602.60.9953390.9954730.9956040.9957310.9958550.9959750.9960930.9962070.9963190.9964272.70.9965330.9966360.9967360.9968330.9969280.9970200.9971100.9971970.9972820.9973652.80.9974450.9975230.9975990.9976730.9977440.9978140.9978820.9979480.9980120.9980742.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986953.00.9996500.9996640.9987760.9991550.9991840.9992110.9992380.9998650.9989993.10.9993130.9993360.9993590.9993810.9994020.9994230.9994430.9994620.9994810.9994943.30.9995170.9995330.9995660.9995810.9995660.9995700.9997700.9997300.9997400.9996240.9996380.999653.40.9997670.9997760.9997840.9997860.9998800.9998700.9998710.9998710.9998280.9998883.50.9997670.9997760.9997840.9999850.9998600.99998		0.986097	0.986447	0.986791	0.987126	0.987455	0.987776	0.988089	0.988396	0.988696	0.988989
2.50.9937900.9939630.9941320.9942970.9944570.9946140.9947660.9947660.9949150.9950600.9952012.60.9953390.9954730.9956040.9957310.9958550.9959750.9960930.9962070.9963190.9964272.70.9965330.9966360.9967360.9968330.9969280.9970200.9971100.9971970.9972820.9973652.80.9974450.9975230.9975990.9976730.9977440.9978140.9978820.9979480.9980120.9980742.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986053.00.9986500.9986940.9987360.9987770.9988170.9988560.9988930.9989300.9989650.9989993.10.9990320.9990650.9990960.9991260.9991550.9991840.9992110.9992380.9992640.9992893.20.9993130.9993300.9995500.9995660.9995810.9995960.9996100.9996240.9996380.9996503.40.9996630.9996750.9996870.9996860.9998000.9997200.9997300.9997400.9997490.9997493.50.9997670.9997760.9997840.9999850.9998640.9998690.9998740.9998750.9998830.9998883.60.9998410.9998860.9999860.99999000.9999860.999	2.3	0.989276		0.989830		0.990358		0.990863	0.991106	0.991344	
2.60.9953390.9954730.9956040.9957310.9958550.995750.9960930.9962070.9963190.9964272.70.9965330.9966360.9967360.9968330.9969280.9970200.9971100.9971970.9972820.9973652.80.9974450.9975230.9975990.9976730.9977440.9978140.9978820.9979480.9980120.9980742.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986053.00.9986500.9986940.9987360.9987770.9988170.9988560.9988930.9989300.9989650.9989993.10.9990320.9990650.9990960.9991260.9991550.9991840.9992110.9992380.9992640.9992893.20.9993130.9993360.9993590.9993810.9994020.9994230.9994430.9994620.9994810.9994993.30.9995170.9995330.9995500.9995660.9995810.9995960.9996100.9996240.9996380.9996503.40.9996630.9997760.9997760.9997840.9997920.9998000.9997200.9997300.9997400.9997490.9999883.50.9998410.9998470.9998530.9998580.9998640.9998690.9998740.9998790.9998790.9998793.60.9998220.9998860.9999900.9999900.9999900.99991		0.991802		0.992240		0.992656		0.993053	0.993244	0.993431	
2.70.9965330.9966360.9967360.9968330.9969280.9970200.9971100.9971970.9972820.9973652.80.9974450.9975230.9975990.9976730.9977440.9978140.9978820.9979480.9980120.9980742.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986053.00.9986500.9986940.9987360.9987770.9988170.9988560.9988930.9989300.9989650.9989993.10.9990320.9990650.9990960.9991260.9991550.9991840.9992110.9992380.9992640.9992893.20.9993130.9993360.9993590.9993810.9994020.9994230.9994430.9994620.9994810.9994993.30.9995170.9995330.9995500.9995660.9995810.9995960.9996100.9996240.9996380.9996503.40.9996630.9996750.9996870.9996980.9997090.9997200.9997300.9997400.9997490.9997583.50.9997670.9997760.9997840.9999780.9998040.9998070.9998150.9998790.9998830.9998883.60.9998410.9998460.9999850.9999860.99998640.9999860.9999870.9999870.9999870.9999883.80.9999280.9999310.9999330.9999330.9999380.99999440.99		0.993790	0.993963	0.994132	0.994297	0.994457	0.994614	0.994766	0.994915	0.995060	0.995201
2.8   0.997445   0.997523   0.997599   0.997673   0.997744   0.997814   0.997882   0.997948   0.998012   0.998074     2.9   0.998134   0.998193   0.998250   0.998305   0.998359   0.998411   0.998462   0.998511   0.998559   0.998605     3.0   0.998650   0.998694   0.998736   0.998777   0.998817   0.998856   0.998893   0.998930   0.998965   0.998999     3.1   0.999032   0.999065   0.999096   0.999126   0.999155   0.999184   0.999211   0.999238   0.999264   0.999289     3.2   0.999313   0.999336   0.999359   0.999381   0.999402   0.999423   0.999443   0.999462   0.999481   0.999499     3.3   0.999517   0.999533   0.999550   0.999566   0.999581   0.999596   0.999610   0.999624   0.999638   0.999650     3.4   0.999663   0.999675   0.999687   0.999688   0.999709   0.999720   0.999730   0.999740   0.999740   0.999828   0.999885     3.6   0.999841   0.	2.6	0.995339	0.995473	0.995604	0.995731	0.995855	0.995975	0.996093	0.996207	0.996319	0.996427
2.90.9981340.9981930.9982500.9983050.9983590.9984110.9984620.9985110.9985590.9986053.00.9986500.9986940.9987360.9987770.9988170.9988560.9988930.9989300.9989650.9989993.10.9990320.9990650.9990960.9991260.9991550.9991840.9992110.9992380.9992640.9992893.20.9993130.9993360.9993590.9993810.9994020.9994230.9994430.9994620.9994810.9994993.30.9995170.9995330.9995500.9995660.9995810.9995960.9996100.9996240.9996380.9996503.40.9996630.9996750.9996870.9996980.9997090.9997200.9997300.9997400.9997490.9997783.50.9997670.9997760.9997840.9997920.9998000.9998070.9998150.9998210.9998280.9998833.60.9998410.9998470.9998530.9998580.9998640.9998690.9998740.9998790.9998830.9998883.70.9998920.9998960.9999000.9999040.9999080.9999120.9999150.9999180.9999180.9999220.9999253.80.9999280.9999310.9999330.9999330.9999380.9999440.9999440.9999460.9999460.9999480.999948		0.996533	0.996636	0.996736	0.996833	0.996928		0.997110	0.997197	0.997282	
3.0   0.998650   0.998694   0.998736   0.998777   0.998817   0.998856   0.998893   0.998930   0.998965   0.998999     3.1   0.999032   0.999065   0.999096   0.999126   0.999155   0.999184   0.999211   0.999238   0.999264   0.999289     3.2   0.999313   0.999336   0.999359   0.999381   0.999402   0.999423   0.999443   0.999462   0.999481   0.999499     3.3   0.999517   0.999533   0.999550   0.999566   0.999581   0.999596   0.999596   0.999610   0.999624   0.999638   0.999650     3.4   0.999663   0.999675   0.999687   0.999689   0.999709   0.999720   0.999730   0.999740   0.999749   0.999758     3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.999883     3.6   0.999841   0.999847   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999988     3.7   0.999880   0.9999931   0											
3.1   0.999032   0.999065   0.999096   0.999126   0.999155   0.999184   0.999211   0.999238   0.999264   0.999289     3.2   0.999313   0.999336   0.999359   0.999381   0.999402   0.999423   0.999443   0.999462   0.999481   0.999499     3.3   0.999517   0.999533   0.999550   0.999566   0.999581   0.999596   0.999610   0.999624   0.999638   0.999650     3.4   0.999663   0.999675   0.999687   0.999698   0.999709   0.999720   0.999730   0.999740   0.999749   0.999758     3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.999883   0.999888     3.6   0.999841   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999883   0.999888     3.7   0.999880   0.999980   0.9999912   0.999915   0.999918   0.999922   0.999925     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0											
3.2   0.999313   0.999336   0.999359   0.999381   0.999402   0.999423   0.999443   0.999462   0.999481   0.999499     3.3   0.999517   0.999533   0.999550   0.999566   0.999581   0.999596   0.999610   0.999624   0.999638   0.999650     3.4   0.999663   0.999675   0.999687   0.999689   0.999709   0.999720   0.999730   0.999740   0.999749   0.999758     3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.999888     3.6   0.999841   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999883   0.999888     3.7   0.999892   0.999896   0.999900   0.999904   0.999908   0.999912   0.999915   0.999918   0.999948   0.999950     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0.999941   0.999943   0.999946   0.999948   0.999950											
3.3   0.999517   0.999533   0.999550   0.999566   0.999581   0.999596   0.999610   0.999624   0.999638   0.999650     3.4   0.999663   0.999675   0.999687   0.999698   0.999709   0.999720   0.999730   0.999740   0.999749   0.999758     3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.99983     3.6   0.999841   0.999847   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999883   0.999888     3.7   0.999882   0.999980   0.999900   0.999904   0.999908   0.999912   0.999915   0.999918   0.999922   0.999925     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0.999941   0.999943   0.999946   0.999948   0.999950											
3.4   0.999663   0.999675   0.999687   0.999698   0.999709   0.999720   0.999730   0.999740   0.999749   0.999758     3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.999835     3.6   0.999841   0.999847   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999883   0.999888     3.7   0.99982   0.999896   0.999900   0.999904   0.999908   0.999912   0.999915   0.999918   0.999922   0.999950     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0.999941   0.999943   0.999946   0.999948   0.999950											
3.5   0.999767   0.999776   0.999784   0.999792   0.999800   0.999807   0.999815   0.999821   0.999828   0.999835     3.6   0.999841   0.999847   0.999853   0.999858   0.999864   0.999869   0.999874   0.999879   0.999883   0.999888     3.7   0.999892   0.999896   0.999900   0.999904   0.999908   0.999912   0.999915   0.999918   0.999922   0.999925     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0.999941   0.999943   0.999946   0.999948   0.999950											
3.60.9998410.9998470.9998530.9998580.9998640.9998690.9998740.9998790.9998830.9998883.70.9998920.9998960.9999000.9999040.9999080.9999120.9999150.9999180.9999180.9999220.9999253.80.9999280.9999310.9999330.9999360.9999380.9999410.9999430.9999460.9999480.999950											
3.7   0.999892   0.999896   0.999900   0.999904   0.999908   0.999912   0.999915   0.999918   0.999922   0.999925     3.8   0.999928   0.999931   0.999933   0.999936   0.999938   0.999941   0.999943   0.999946   0.999948   0.999950											
3.8  0.999928  0.999931  0.999933  0.999936  0.999938  0.999941  0.999943  0.999946  0.999948  0.999950											
3.9 0.999952 0.999954 0.999956 0.999958 0.999959 0.999961 0.999963 0.999964 0.999966 0.999967											
	3.9	0.999952	0.999954	0.999956	0.999958	0.999959	0.999961	0.999963	0.999964	0.999966	0.999967