INLIGTINGSBOEKIE

Algebra

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\sum_{i=1}^{n} 1 = n$$

$$S_n = \frac{n}{2} \left[2a + (n-1)d \right]$$

$$z=a+bi$$

$$\ln A + \ln B = \ln (AB)$$

In
$$A^n = n \ln A$$

$$|x| = \begin{cases} x & ; & x \ge 0 \\ -x & ; & x < 0 \end{cases}$$

$$\sum_{i=1}^{n} i = \frac{n(n+1)}{2} = \frac{n^2}{2} + \frac{n}{2}$$

$$S_n = \frac{a(1-r^n)}{1-r}$$

$$z^* = a - bi$$

$$\ln A - \ln B = \ln \left(\frac{A}{B} \right)$$

$$\log_a x = \frac{\log_b x}{\log_b a}$$

 $\int_{0}^{b} x^{n} dx = \left[\frac{x^{n+1}}{n+1} \right]^{b}, \quad n \neq -1$

Calculus

Oppervlakte =
$$\lim_{n \to \infty} \left(\frac{b-a}{n} \right) \sum_{i=1}^{n} f(x_i)$$

$$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$$

$$\int f'(g(x)).g'(x)dx = f(g(x)) + c$$

$$\int f(x).g'(x)dx = f(x).g(x) - \int g(x).f'(x)dx + c$$

$$X_{r+1} = X_r - \frac{f(X_r)}{f'(X_r)}$$

$$V = \pi \int_{a}^{b} y^2 dx$$

 $\frac{dy}{dx} = \frac{dy}{dt} \times \frac{dt}{dx}$

Funksie	Afgeleide
x ⁿ	nx^{n-1}
sin x	cos x
COS X	−sin <i>x</i>
tan x	sec ² x
cot x	-cosec ² x
sec x	sec x.tan x
cosec x	-cosec x.cot x
e ^x	e ^x
In x	$\frac{1}{x}$
f(g(x))	f'(g(x)).g'(x)
f(x).g(x)	g(x).f'(x)+f(x).g'(x)
f(x)	g(x).f'(x)-f(x).g'(x)
g(x)	$[g(x)]^2$

$$A = \frac{1}{2}r^2\theta \qquad \qquad s = r\theta$$

In
$$\triangle ABC$$
:
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc.\cos A$$

$$Oppervlakte = \frac{1}{2}ab.\sin C$$

$$\sin^2 A + \cos^2 A = 1 \qquad 1 + \tan^2 A = \sec^2 A$$

$$1+\cot^2 A = \csc^2 A$$

$$\sin(A \pm B) = \sin A.\cos B \pm \cos A \sin B$$

$$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\sin 2A = 2\sin A\cos A$$

$$\cos 2A = \begin{cases} \cos^2 A - \sin^2 A \\ 2\cos^2 A - 1 \\ 1 - 2\sin^2 A \end{cases}$$

$$\sin A.\cos B = \frac{1}{2} \left[\sin(A+B) + \sin(A-B) \right]$$

$$\sin A.\sin B = \frac{1}{2} \left[\cos(A-B) - \cos(A+B)\right]$$

$$\cos A.\cos B = \frac{1}{2} \left[\cos(A-B) + \cos(A+B)\right]$$

Matrikstransformasies

$$\begin{pmatrix}
\cos\theta & -\sin\theta \\
\sin\theta & \cos\theta
\end{pmatrix} \qquad \begin{pmatrix}
\cos 2\theta & \sin 2\theta \\
\sin 2\theta & -\cos 2\theta
\end{pmatrix}$$

Finansies en Modellering

$$F = P(1+in) F = P(1-in) F = P(1+i)^n F = P(1-i)^n$$

$$F = x \left[\frac{(1+i)^n - 1}{i} \right] P = x \left[\frac{1 - (1+i)^{-n}}{i} \right] r_{eff} = \left(1 + \frac{r}{k} \right)^k - 1$$

$$P_{n+1} = P_n + rP_n \left(1 - \frac{P_n}{K} \right)$$

$$R_{n+1} = R_n + aR_n \left(1 - \frac{R_n}{K} \right) - bR_n F_n F_{n+1} = F_n + f bR_n F_n - cF_n$$

Statistiek

$$P(A) = \frac{n(A)}{n(S)} \qquad P(B|A) = \frac{P(B \cap A)}{P(A)} \qquad P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$${}^{n}P_{r} = \frac{n!}{(n-r)!} \qquad {}^{n}C_{r} = {n \choose r} = \frac{n!}{(n-r)!r!} \qquad P(X = x) = {n \choose x} p^{x} (1-p)^{n-x}$$

$$P(R = r) = \frac{{n \choose r} {N-p \choose n-r}}{{n \choose n}} \qquad E[X] = n \cdot p \qquad Var[X] = n \cdot p (1-p)$$

$$Z = \frac{X - \mu}{\sigma} \qquad Z = \frac{\overline{X} - \mu}{\frac{\sigma}{\sqrt{n}}} \qquad Z = \frac{(\overline{X} - \overline{Y}) - (\mu_{x} - \mu_{y})}{\sqrt{\sigma_{x}^{2} + \frac{\sigma^{2}_{y}}{n_{y}}}}$$

$$\overline{X} \pm Z \frac{\sigma}{\sqrt{n}} \qquad p \pm Z \sqrt{\frac{P(1-p)}{n}} \qquad E[X] = \sum X \cdot P(X = x)$$

$$Var[X] = E[X^{2}] - (E[X])^{2}$$

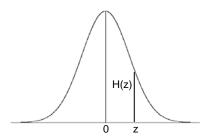
NORMAALVERDELINGSTABEL

Oppervlaktes onder die normaalkromme

$$H(z) = \frac{1}{\sqrt{2\pi}} \int_{0}^{z} e^{-\frac{1}{2}x^{2}} dx$$

$$H(-z) = H(z), H(\infty) = \frac{1}{2}$$

Inskrywings in die tabel is waardes van H(z) vir $z \ge 0$.



0,0	Z	,00	,01	,02	,03	,04	,05	,06	,07	,08	,09
0,1	0,0							,0239			
0,3		,0398	,0438	,0478	,0517	,0557	,0596	,0636	,0675	,0714	,0753
0,4 1,1554 ,1591 ,1628 ,1664 ,1700 ,1736 ,1772 ,1808 ,1844 ,1879 0,5 ,1915 ,1950 ,1985 ,2019 ,2054 ,2088 ,2123 ,2157 ,2190 ,2224 0,6 ,2257 ,2291 ,2324 ,2357 ,2389 ,2422 ,2454 ,2486 ,2517 ,2549 0,8 ,2881 ,2910 ,2939 ,2967 ,2995 ,3023 ,3051 ,3078 ,3106 ,3133 0,9 ,3159 ,3186 ,3212 ,3238 ,3264 ,3289 ,3315 ,3340 ,3365 ,3383 ,3665 ,3686 ,3708 ,3729 ,3749 ,3770 ,3790 ,3810 ,3830 1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,3997 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4993 ,4155 ,4157 ,4172	0,2	,0793	,0832	,0871	,0910	,0948	,0987	,1026	,1064	,1103	,1141
0.5	0,3	,1179	,1217	,1255	,1293	,1331	,1368	,1406	,1443	,1480	,1517
0,6	0,4	,1554	,1591	,1628	,1664	,1700	,1736	,1772	,1808	,1844	,1879
0,6	0.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
0,7 2580 ,2611 ,2642 ,2673 ,2704 ,2734 ,2764 ,2794 ,2823 ,2852 0,8 ,2881 ,2910 ,2939 ,2967 ,2995 ,3023 ,3051 ,3078 ,3106 ,3133 0,9 ,3159 ,3186 ,3212 ,3238 ,3264 ,3289 ,3315 ,3340 ,3365 ,3389 1,0 ,3413 ,3438 ,3461 ,3485 ,3508 ,3531 ,3554 ,3577 ,3599 ,3621 1,1 ,3643 ,3665 ,3686 ,3708 ,3729 ,3749 ,3770 ,3790 ,3810 ,3891 1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,3997 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4099 ,4115 ,4131 ,4147 ,4162 ,4471 ,417 1,5 ,4332 ,4345 ,4357 ,4370 <td< th=""><th></th><th></th><th></th><th>·</th><th></th><th></th><th></th><th></th><th></th><th></th><th>´~ - 4 ~</th></td<>				·							´~ - 4 ~
0,8 2,281 2910 2939 2967 2995 3023 3051 ,3078 ,3166 ,3133 0,9 3,159 3,186 ,3212 ,3238 ,3264 ,3289 ,3315 ,3340 ,3365 ,3389 1,0 3,413 ,3438 ,3461 ,3485 ,3508 ,3531 ,3577 ,3599 ,3810 ,3830 1,1 ,3643 ,3665 ,3686 ,3708 ,3729 ,3749 ,3790 ,3810 ,3830 1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,3997 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4099 ,4115 ,4131 ,4147 ,4162 ,4177 1,4 ,4192 ,4207 ,4222 ,4236 ,4251 ,4265 ,4279 ,4292 ,4306 ,4319 1,5 ,4332 ,4345 ,4357 ,4370 ,4382 ,4394 ,44				´	·	·	·	·			´
1,0			,2910	,2939		,2995		,3051	,3078		,3133
1,1 ,3643 ,3665 ,3686 ,3708 ,3729 ,3749 ,3770 ,3790 ,3810 ,3830 1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,397 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4099 ,4115 ,4131 ,4147 ,4162 ,4177 1,4 ,4192 ,4207 ,4222 ,4236 ,4251 ,4265 ,4279 ,4292 ,4306 ,4319 1,5 ,4332 ,4345 ,4357 ,4370 ,4382 ,4394 ,4406 ,4418 ,4429 ,4441 1,6 ,4452 ,4463 ,4474 ,4484 ,4495 ,4505 ,4515 ,4525 ,4535 ,4545 1,7 ,4554 ,4564 ,4573 ,4582 ,4591 ,4599 ,4608 ,4616 ,4625 ,4633 1,8 ,4641 ,4649 ,4656 ,4664 ,4671 ,4678 ,4683 ,4899 ,4766 1,9 ,4772 ,4778	0,9	,3159	,3186	,3212	,3238	,3264	,3289	,3315	,3340	,3365	,3389
1,1 ,3643 ,3665 ,3686 ,3708 ,3729 ,3749 ,3770 ,3790 ,3810 ,3830 1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,397 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4099 ,4115 ,4131 ,4147 ,4162 ,4177 1,4 ,4192 ,4207 ,4222 ,4236 ,4251 ,4265 ,4279 ,4292 ,4306 ,4319 1,5 ,4332 ,4345 ,4357 ,4370 ,4382 ,4394 ,4406 ,4418 ,4429 ,4441 1,6 ,4452 ,4463 ,4474 ,4484 ,4495 ,4505 ,4515 ,4525 ,4535 ,4545 1,7 ,4554 ,4564 ,4573 ,4582 ,4591 ,4599 ,4608 ,4616 ,4625 ,4633 1,8 ,4641 ,4649 ,4656 ,4664 ,4671 ,4678 ,4683 ,4899 ,4766 1,9 ,4772 ,4778	1.0	3413	3438	3461	3485	3508	3531	3554	3577	3599	3621
1,2 ,3849 ,3869 ,3888 ,3907 ,3925 ,3944 ,3962 ,3980 ,3997 ,4015 1,3 ,4032 ,4049 ,4066 ,4082 ,4099 ,4115 ,4131 ,4147 ,4162 ,4177 1,4 ,4192 ,4207 ,4222 ,4236 ,4251 ,4265 ,4279 ,4292 ,4306 ,4319 1,5 ,4332 ,4345 ,4357 ,4370 ,4382 ,4394 ,4406 ,4418 ,4429 ,4441 1,6 ,4452 ,4463 ,4474 ,4484 ,4495 ,4505 ,4515 ,4525 ,4535 ,4545 1,7 ,4554 ,4564 ,4573 ,4582 ,4591 ,4599 ,4608 ,4616 ,4625 ,4633 1,8 ,4641 ,4649 ,4656 ,4664 ,4671 ,4678 ,4686 ,4893 ,4699 <t,4761< td=""> ,4761 ,4767 2,0 ,4772 ,4778 ,4783 ,4788 ,4793 ,4798 ,4803 ,48812 ,4817 2,1</t,4761<>					·	·					
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1,6 ,4452 ,4463 ,4474 ,4484 ,4495 ,4505 ,4515 ,4525 ,4535 ,4545 1,7 ,4554 ,4564 ,4573 ,4582 ,4591 ,4599 ,4608 ,4693 ,4699 ,4606 1,9 ,4713 ,4719 ,4726 ,4732 ,4738 ,4744 ,4750 ,4756 ,4761 ,4767 2,0 ,4772 ,4778 ,4783 ,4788 ,4793 ,4798 ,4803 ,4804 ,4857 2,1 ,4821 ,4826 ,4830 ,4834 ,4838 ,4842 ,4846 ,4857 ,4850 2,2 ,4861 ,4864 ,4868 ,4871 ,4878 ,4881 ,4884 ,4887 ,4890 2,3 ,48928 ,48956 ,48983 ,49010 ,49036 ,49061 ,49086 ,49111 ,49134 ,49158 2,4 ,49180 ,49202 ,49224 ,49245 ,49266 ,49286 ,49305 ,49324 ,49343 ,49361 2,5 ,49379 ,4936 ,49413		,4192	,4207	,4222	,4236	,4251	,4265	,4279	,4292	,4306	,4319
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2,1 ,4821 ,4826 ,4830 ,4834 ,4838 ,4842 ,4846 ,4850 ,4857 ,4861 ,4861 ,4864 ,4868 ,4871 ,4875 ,4878 ,4881 ,4884 ,4887 ,4890 2,3 ,48928 ,48956 ,48983 ,49010 ,49036 ,49061 ,49086 ,49111 ,49134 ,49158 2,4 ,49180 ,49202 ,49224 ,49266 ,49286 ,49305 ,49324 ,49361 2,5 ,49379 ,49396 ,49413 ,49430 ,49446 ,49461 ,49477 ,49492 ,49506 ,49520 2,6 ,49534 ,49547 ,49560 ,49573 ,49585 ,49598 ,49609 ,49621 ,49632 ,49632 2,7 ,49653 ,49664 ,49674 ,49683 ,49693 ,49702 ,49711 ,49720 ,49728 ,49736 2,8 ,49744 ,49752 ,49760 ,49774 ,49781 ,49788 ,49795 ,49861 3,0 ,49865 ,49869 ,49874 ,49878	2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2,2 ,4861 ,4864 ,4868 ,4871 ,4875 ,4878 ,4881 ,4884 ,4887 ,4890 2,3 ,48928 ,48956 ,48983 ,49010 ,49036 ,49061 ,49086 ,49111 ,49134 ,49158 2,4 ,49180 ,49202 ,49224 ,49245 ,49266 ,49286 ,49305 ,49324 ,49343 ,49361 2,5 ,49379 ,49396 ,49413 ,49430 ,49446 ,49461 ,49477 ,49492 ,49506 ,49520 2,6 ,49534 ,49547 ,49560 ,49573 ,49585 ,4958 ,49609 ,49621 ,49632 ,49643 2,7 ,49653 ,49644 ,49674 ,49683 ,49693 ,49702 ,49711 ,49720 ,49728 ,49736 2,8 ,49744 ,49752 ,49760 ,49767 ,49774 ,49781 ,49884 ,49886 ,49881 ,49856 ,49861 3,0 ,49865 ,49869 ,49874 ,49878 ,49882 ,4986 ,49889 ,49893 ,498	l l										·
2,3											
2,5	l l	,48928	,48956	,48983	,49010	,49036	,49061	,49086	,49111	,49134	,49158
2,6	2,4	,49180	,49202	,49224	,49245	,49266	,49286	,49305	,49324	,49343	,49361
2,6	2.5	.49379	.49396	.49413	.49430	.49446	.49461	.49477	.49492	.49506	.49520
2,7	l l				-						
2,8	l l		·	·			·			·	·
3,0	l l	,49744	,49752	,49760	,49767	,49774	,49781	,49788	,49795	,49801	,49807
3,1	2,9	,49813	,49819	,49825	,49831	,49836	,49841	,49846	,49851	,49856	,49861
3,1	3.0	49865	49869	49874	49878	49882	49886	49889	49893	49896	49900
3,2											
3,3					•	•	,	•	•		,
3,4 ,49966 ,49968 ,49969 ,49970 ,49971 ,49972 ,49973 ,49974 ,49975 ,49976 3,5 ,49977 3,6 ,49984 3,7 ,49989 3,8 ,49993 3,9 ,49995											
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3,6 ,49984 3,7 ,49989 3,8 ,49993 3,9 ,49995	3.5	49077									
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40 4007		,									
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