

INLIGTINGSBLAD

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

$$x = -\frac{b}{2a}$$

$$y = \frac{4ac - b^2}{4a}$$

$$a^x = b \Leftrightarrow x = \log_a b, \quad a > 0, a \neq 1 \text{ en } b > 0$$

$$A = P(1 + ni)$$

$$A = P(1 - ni)$$

$$A = P(1 + i)^n$$

$$A = P(1 - i)^n$$

$$i_{\text{eff}} = \left(1 + \frac{i}{m}\right)^m - 1$$

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

$$\int \frac{1}{x} dx = \ln x + C, x > 0$$

$$\int \frac{k}{x} dx = k \cdot \ln x + C, x > 0$$

$$\int x^n dx = \frac{x^{n+1}}{n+1} + C, x \neq -1$$

$$\int kx^n dx = k \cdot \frac{x^{n+1}}{n+1} + C, n \neq -1$$

$$\int a^x dx = \frac{a^x}{\ln a} + C, a > 0$$

$$\int ka^{nx} dx = k \cdot \frac{a^{nx}}{n \ln a} + C, a > 0$$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$M\left(\frac{x_1 + x_2}{2}; \frac{y_1 + y_2}{2}\right)$$

$$y = mx + c$$

$$y - y_1 = m(x - x_1)$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \tan \theta$$

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

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

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

$$\text{oppervlakte van } \triangle ABC = \frac{1}{2} ab \cdot \sin C$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$\cot^2 \theta + 1 = \operatorname{cosec}^2 \theta$$

$$\pi rad = 180^\circ$$

$$\text{Hoeksnelheid} = \omega = 2\pi n$$

waar n = rotasiefrekwensie

$$\text{Hoeksnelheid} = \omega = 360^\circ n$$

waar n = rotasiefrekwensie

$$\text{Omtreksnelheid} = v = \pi Dn$$

waar D = diameter en n = rotasiefrekwensie

$$\text{Booglengte } s = r\theta$$

waar r = radius en θ = middelpunthoek in radiale

$$\text{Oppervlakte van sektor} = \frac{rs}{2}$$

waar r = radius en s = booglengte

$$\text{Oppervlakte van sektor} = \frac{r^2\theta}{2}$$

waar r = radius en θ = middelpunthoek in radiale

$$4h^2 - 4dh + x^2 = 0$$

waar h = hoogte van segment,

d = diameter van sirkel en
 x = lengte van koord

$$A_T = a \left(\frac{o_1 + o_n}{2} + o_2 + o_3 + o_4 + \dots + o_{n-1} \right)$$

waar a = getal gelyke dele,

$o_n = n^{\text{de}}$ ordinaat en
 n = getal ordinate

OF

$$A_T = a(m_1 + m_2 + m_3 + \dots + m_n)$$

waar a = getal gelyke dele, $m_1 = \frac{o_1 + o_2}{2}$

en n = getal ordinate