

$$y = a(x-b)^2 + c$$

$$V = \frac{4}{3}\pi r^3$$

$$SA = 4\pi r^2$$

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

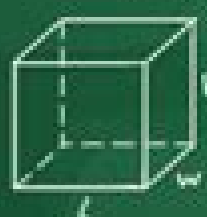
$$4^{\frac{3}{2}} = \sqrt[2]{4^3} \quad \log_c\left(\frac{a}{b}\right) = \log_c a - \log_c b$$

$$\pi \approx 3.14$$

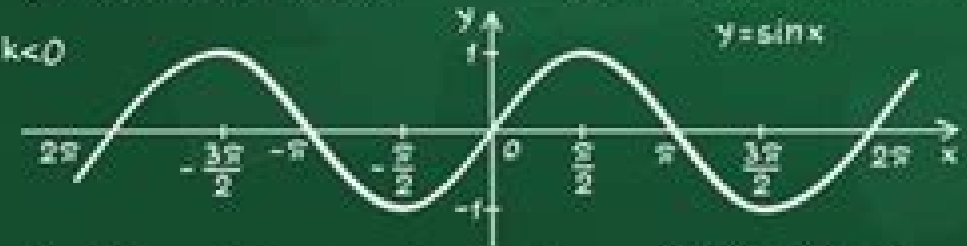
$$\sin 30^\circ = \frac{1}{2}$$

$$\sin 45^\circ = \frac{1}{\sqrt{2}}$$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$



$$SA = 2lw + 2lh + 2wh$$



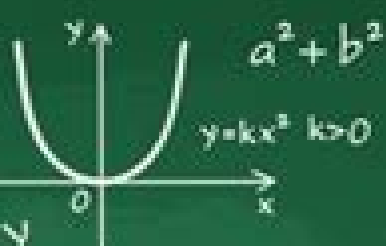
$$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$$

$$\cos\left(\frac{\pi}{6}\right) = \frac{\sqrt{3}}{2}$$



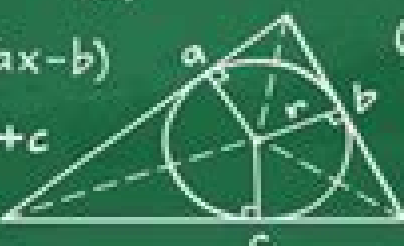
$$2x^2 + 3x + 4 = y$$

$$\left(\frac{a}{b}\right)^c = \frac{a^c}{b^c}$$



$$\log_a 1 = 0$$

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



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

$$(a-b-c)^2 = a^2 + b^2 + c^2 - 2ab + 2bc - 2ca$$

$$y = ax^2 + bx + c$$

$$A = \frac{1}{2}ar + \frac{1}{2}br + \frac{1}{2}cr$$

$$\left(\frac{2}{3}\right)^{-3} = \left(\frac{3}{2}\right)^3 \quad S = \frac{a+b+c}{2}$$



$$a+b+c+d = 360^\circ$$



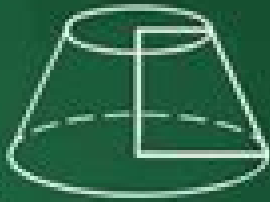
$$a+b+c = 180^\circ$$

$$8^2 + 6^2 = c^2$$

$$64 + 36 = c^2$$

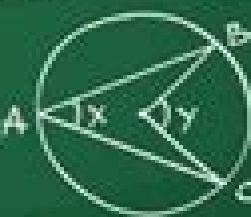
$$100 = c^2$$

$$\sqrt{100} = \sqrt{c^2} \quad \pm 10 = c$$



$$(x+y)^n = \sum_{k=0}^n {}^nC_k x^{n-k} y^k$$

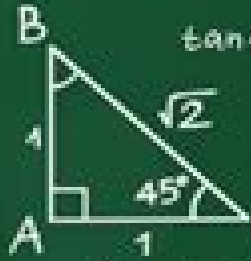
$$\sqrt{2}$$



$$\frac{x}{x+2} - \frac{8}{x+6} = \frac{16}{x^2 + 8x + 6}$$

$$c^2 = a^2 + b^2$$

$$\tan 60^\circ = \sqrt{3}$$



$$C = 2\pi r$$

$$A = sr \quad r = \frac{A}{s} \quad \tan 30^\circ = \frac{1}{\sqrt{3}}$$

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web may 27 2020 matlab codes for modeling and analysis of three benchmark structural optimization problems are provided in this submission these benchmark truss problems 10 bar truss 25 bar truss and 72 bar truss have been used in many structural optimization studies in the literature for many years

finite element analysis of a 2d truss using matlab and opensee - Oct 06 2022

web may 19 2017 truss is a solid structure that consists of triangular elements here the members are connected at their ends via pin joints many applications of trusses found in structural projects e g