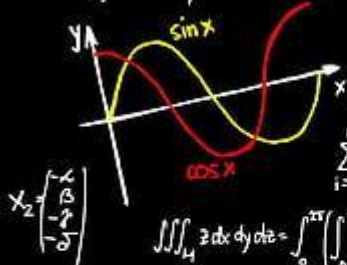


$$x^4 + x^2 + y^3 + z^3 + xy^2 - C = 0$$



$$\text{grad} f = \left(\frac{\partial f}{\partial x}, \frac{\partial f}{\partial y} \right)$$

$$Y_{i+1} = Y_i + b \cdot k_2$$

$$B = \begin{pmatrix} 2 & 1 & -1 & 0 \\ 3 & 0 & 1 & 2 \end{pmatrix}$$

$$\tan x \cdot \cot x = 1$$

$$2x^2yy' + y^2 = 2$$

$$x_1 = -11p, x_2 = -p, x_3 = 7p, p \in \mathbb{R}$$

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

$$\tan \frac{x}{2} = \frac{1 - \cos x}{\sin x} = \frac{\sin x}{1 + \cos x}$$

$$X_2 = \begin{pmatrix} -4 \\ 3 \\ -2 \\ -5 \end{pmatrix}$$

$$\iiint_H z \, dx \, dy \, dz = \int_0^{2\pi} \left(\int_0^1 \left(\int_{\frac{1}{2}}^1 r \, dr \right) d\theta \right) d\varphi$$

$$\lim_{n \rightarrow \infty} \frac{\sqrt{n^2+1} + n}{2\sqrt{3n^2+2n-1}}$$

$$\begin{cases} \lambda x - y + z = 1 \\ x + \lambda y + z = \lambda \\ x + y + \lambda z = \lambda^2 \end{cases}$$

$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$$

$$y = \sqrt[3]{x+1}; x = \tan t$$



$$F_2 = 2 \times \gamma \cdot z - 1 = 1$$

$$X_1 = \begin{pmatrix} 2p \\ -p \\ 0 \end{pmatrix}$$



$$(1+e^x)yy' = e^x$$

$$\cos 2x = \cos^2 x - \sin^2 x$$

$$2 \arctan x - x = 0, I = (1, 10)$$

$$\int_{-\pi/2}^{\pi/2} \sin^4 x \cdot \cos^3 x \, dx$$



$$\cos^2 \alpha + \cos^2 \beta + \cos^2 \gamma = 1$$

$$\delta(p_2) = \sqrt{0.16}$$

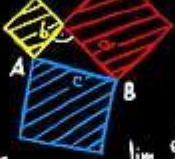
$$C = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$$

$$\frac{\partial}{\partial x} = 2; \frac{\partial}{\partial y} = 0 \quad \vec{n} = (F'_x; F'_y; F'_z)$$

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

$$f(x) = 2^{-x} + 1, \epsilon = 0.005$$

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 0$$



$$e^z - xy^2z = e; A[0; e; 1]$$

$$\sin 2x = 2 \sin x \cdot \cos x$$

$$\lim_{x \rightarrow 0} \frac{e^{2x} - 1}{5x} = \frac{2}{5}$$

$$|x| + |y| \neq 0; y \neq 0$$



$$|z| = \sqrt{a^2 + b^2}$$

$$x \left(\frac{\partial f}{\partial x} \right) = 16 - x^2 + 16y^2 - 4z > 0$$

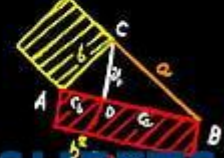
$$A = \begin{pmatrix} x & 1+x^2 & 1 \\ y & 1+y^2 & 1 \\ z & 1+z^2 & 1 \end{pmatrix}; x=0, y=1, z=2$$

$$\frac{2x}{x^2 + 2y^2} = 2 \quad z = \frac{1}{x} \arcsin \frac{\sqrt{2}}{2}$$

$$\sin(x+y) = \sin x \cos y + \cos x \sin y$$

$$y' - \frac{\sqrt{y}}{x+2} = 0; y(0) = 1$$

$$\eta_1 = \lambda_1^2 - 3\lambda_1 + 1 + 0$$



$$A = [1, \dots, 1] \quad \omega = \left(\frac{1}{2}, \frac{1}{2}, \frac{1}{2} \right) \quad \frac{1}{\sqrt{1^2 + 1^2 + 1^2}} = \frac{1}{\sqrt{3}}$$

LIVEWORKSHEETS