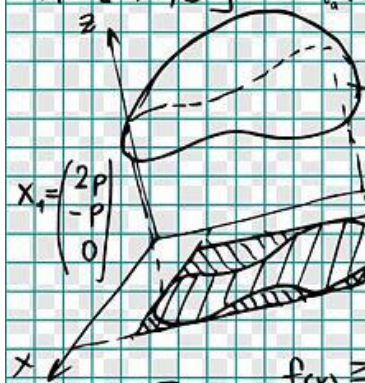


$$A = [1, 0, 3]$$

$$\int_a^b f(g(x)) \cdot g'(x) dx = \int_{g(a)}^{g(b)} f(t) dt = [F(t)]_{g(a)}^{g(b)}$$



$$G\{[x, y, z] \in \mathbb{E}_3 : [x, y] \in M, 0 \leq z \leq f(x, y)\}$$

$$\left(\frac{\partial \varphi}{\partial x}, \frac{\partial \varphi}{\partial y}\right) = (U, V)$$

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

$$f(x) \geq 0$$



$$R_0 = \frac{\sqrt{1000}}{3\sqrt{11}} = \frac{10}{3\sqrt{11}} \approx 7$$

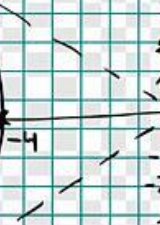


$$e^2 - xyz = e; A[0; e; 1]$$

$$X_1 = \begin{pmatrix} \alpha + \beta + \gamma \\ \alpha \\ \beta \end{pmatrix}$$

$$\delta(f, D, V) = \|D\| = P_1 + P_2 + P_3$$

$$x^2 + x^2 + y^2 + z^2 + xyz - 6 = 0$$

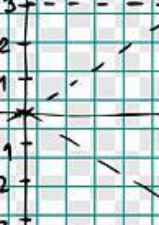


$$y' - \frac{y}{x+2} = 0; y(0) = 1$$

$$\sin x \leq \frac{x}{x}$$

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

$$\frac{x^2}{16} - \frac{y^2}{9} = 1$$



$$x \equiv 1, y \equiv 1 \in M^0$$

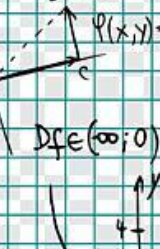
$$Df \in (\infty; 0) \cup (0; 1)$$

$$A+B+C=8$$

$$-3A-7B+2C=-10.3$$

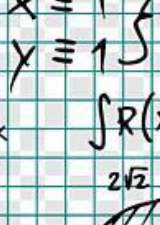
$$-18A+6B-3C=15$$

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



$$\int_{-1}^2 \int_{x+2}^{x^2} xy dy dx$$

$$\frac{2x}{x^2+2y^2} = 2 \sum_{i=1}^n (P_2(x_i) - y_i)^2$$

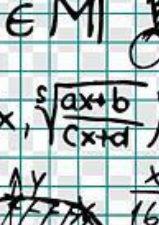


$$\frac{x^2}{16} + \frac{y^2}{8} \leq 1$$

$$U = \text{grad}(A) = (F'_1(A), F'_2(A), F'_3(A))$$

$$Y_{i+1} = Y_i + b \cdot K_2$$

$$\Delta A = \begin{vmatrix} \frac{\partial^2 F}{\partial x^2} & \frac{\partial^2 F}{\partial x \partial y} \\ \frac{\partial^2 F}{\partial y \partial x} & \frac{\partial^2 F}{\partial y^2} \end{vmatrix} (A)$$

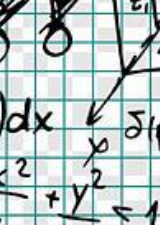


$$\frac{\partial f}{\partial x_i}(A) = K_i$$

$$m_i = \int (x_i) \Delta x_i \Delta y_i \Delta z_i$$

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

$$\Delta(A_2) = \begin{vmatrix} 0 & 2\sqrt{2} \\ 2\sqrt{2} & 0 \end{vmatrix}$$

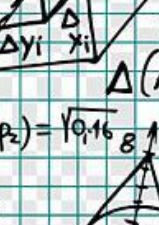


$$\frac{\partial z}{\partial x} = 2; \frac{\partial z}{\partial y} = 0$$

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

$$x^2 + y^2 + z^2 = 76$$

$$x^2 + y^2 + z^2 = 76$$

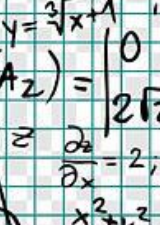


$$\alpha, \beta, \gamma \in \mathbb{C}$$

$$\frac{\partial^2 F}{\partial x^2} (A); \frac{\partial^2 F}{\partial x \partial y} (A)$$

$$\frac{\partial^2 F}{\partial y \partial x} (A); \frac{\partial^2 F}{\partial y^2} (A)$$

$$\frac{\partial^2 F}{\partial x^2} (A); \frac{\partial^2 F}{\partial x \partial y} (A)$$

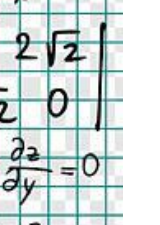


$$\frac{\partial^2 F}{\partial y \partial x} (A); \frac{\partial^2 F}{\partial y^2} (A)$$

$$\frac{\partial^2 F}{\partial x^2} (A); \frac{\partial^2 F}{\partial x \partial y} (A)$$

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$$\frac{\partial^2 F}{\partial y \partial x} (A); \frac{\partial^2 F}{\partial y^2} (A)$$