

$P(x, y)$ is tangent of A & B, if $AA:PB = 5:1$ and curve passes through $(2, 2)$. Equation of curve?

A is 2×2 matrix such that $A^2 + A + I = 0$ where $I = I_2$

$$|\text{adj}(CI - A)| = ?$$

Sum of infinite series $1 + 2 + \frac{2}{3} + \frac{6}{3^2} + \frac{10}{3^3} + \frac{14}{3^4} + \dots$?

$$\int \frac{\sec x}{\sqrt{\sin x \cdot \cos^5 x}} dx = ? \quad (C \text{ is constant integration})$$

Latvia temple city?

Zaha Hadid born in which country?

2000 elevation - 5 miles
 20 top arch - 5 ques
 30 auto pen - 5

Visually aesthetic frame, use only cubes inside the frame
 Copy graphic image

Draw square table cloth OR classroom seating towards teacher from behind the student OR officer sitting in office

Let $f: \mathbb{R} - \{0\} \rightarrow \mathbb{R}$ $f(x) = a \log_e |x| + bx^3 + x^2$

at $x = -1$ and $x = 1$, local minima, maxima

x is remainder of $(98)^2 \div 12$, coefficient of x^2 in $(1 + \frac{x}{2})^{27}$?

$\sim (p \leftrightarrow q) = ?$

value of $\int \frac{5x^4}{1+e^{-x}} dx = ?$

$P(A|B) = \frac{4}{5}$ and $P(B|A) = \frac{1}{4}$, then $P(A|A \cup B) = ?$

$A =$ set of all 3 digit natural numbers, $B = \{x \in A : \text{H.C.F.}(x, 12) = 1\}$
 number of elements in B?

Let $f: [0, 5] \rightarrow \mathbb{R}$ is a continuous function such that $|f(x)| \leq 3$ for all $x \in [0, 5]$ and $\int_0^5 f(t) dt = 3$ value of $\int_0^5 f(t) dt = ?$

Let R relation defined on $\mathbb{Z} \times \mathbb{Z}$ by $(a, b) R (c, d) \Leftrightarrow a + d = b + c$
 $R = ?$

a, b, c are sides of ΔABC then $\frac{c \sin(A-B)}{a^2 - b^2} - \frac{b \sin(C-A)}{c^2 - a^2} = ?$

Area above x axis bounded by parabola, $x - y^2 - 1 = 0$
 $x - y - 3 = 0$?

Let $z \neq -1$ be any complex number such that $|z| = 1$.

Imaginary part of $\frac{z(1-z)}{z(1+z)}$?

Lakes temple city!

Zaha Hadid born in which country?

Escalator moves in which direction

Helical staircases?

Parallel flooring is made of?

most famous temple in Khajuraho?

Soas Bahu temple?

Leaning tower in Italy, which city?

Tallest building in Bengaluru

Hindustan Paragurua

Figure is hidden in problem figure - 10 axes

Complete the sequence - 5 axes

Identify front view? - 5 axes

Correct mirror image - 5 axes

Identify elevation - 5 axes

top view - 5 axes

side view - 5

visually aesthetic frame, use only cubes inside the frame
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$$\text{if } \frac{x-2m}{2m+3} = \frac{y}{5m} = \frac{z-4}{2} \text{ and } \frac{x-2}{m-2} = \frac{y}{-1} = \frac{z-2m}{1-3m} \text{ are } ||$$

$n \in \mathbb{R}$ distance - ?

$$\lim_{x \rightarrow 3} \frac{\sqrt{x+6} - \sin(x-3) - 3}{(x-2) \cos(x-3)}$$

$$\text{if } 6 \cos^2 \theta - 2 \cos 2\theta = 0, \tan^2 \theta = ?$$

$$\text{Let } f: \mathbb{R} - \{0\} \rightarrow \mathbb{R} \quad f(x) = a \log_e |x| + bx^3 + x^2.$$

if $z = -1$ and $x = 1$, local minima, maxima

x is remainder of $(98)^{99} \div 12$, coefficient of x^3 in $(1 + \frac{x}{2})^{27} = ?$

$$\sim (p \leftrightarrow q) = ?$$

$$\text{value of } \int_{-3}^3 \frac{5x^4}{1+e^{-x}} dx = ?$$

$$P(A|B) = 4$$