





MATHS

BOOKS - TELUGU ACADEMY MATHS (TELUGU ENGLISH)

IPE:MARCH-2019(AP)



- 1. Find the angle which the straight line
- $y=\sqrt{3}x-4$ makes with the Y-axis.



3. The distance between the points (5,-1,7) and

(c,5, 1) is 9 then c =



5. Evaluate
$$Lt_{x
ightarrow 0}igg(rac{e^{3+x}-e^3}{x}igg)$$

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6. Evaluate
$$Lt_{x
ightarrow 3}rac{x^2+3x+2}{x^2-6x+9}$$

7. Find the derivatives of the function

$$an^{-1}(\log x)$$

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8. If
$$y=rac{2x+3}{4x+5}$$
 then find y ''.



riangle PAB is 9sq. Units.

2. The point to which the origin is shifted and the transformed equation are given below. Find the original equation.

$$(3, -4)$$
 : $x^2 + y^2 = 4$

3. If the straight lines
$$ax + by + c = 0, bx + cy = a = 0$$
 and $cx = ay + b = 0$ are concurrent, then prove that $a^3 + b^3 + c^3 = 3abc$



5. Find the derivative of $\cot x$ from the first principle.







1. A : The image of the origin with respect to the line x + y + 1 = 0 is (-1, -1) R : If (h, k) is the image of (x_1, y_1) with respect to the line ax + by + c = 0 then $\frac{h - x_1}{a} = \frac{h - k_1}{b} = \frac{-2(ax_1 + by_1 + c)}{a^2 + b^2}$

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2. If $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$

represents two parallel lines then prove that



3. Find the value if k , if the lines joining the origin with the points of intersection of the curve $2x^2 - 2xy + 3y^2 + 2x - y - 1 = 0$ and the x + 2y = k are mutually perpendicular .

4. Find the angle between the lines whose d.c's





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6. Find the points of local extrema for the

function

f(x) = cos4x defined on $\left[0, \frac{\pi}{2}\right]$