

Equation of a Line

L2S2

Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in standard form.

1) $\left(-\frac{4}{5}, 3\right)$ and slope $m = -6$

2) $\left(-\frac{3}{7}, -2\right)$ and slope $m = -\frac{4}{3}$

3) $\left(\frac{1}{2}, \frac{8}{3}\right)$ and slope

slope $m = 2$

5) $\left(-9, -\frac{5}{6}\right)$ and slope

slope $m = -\frac{9}{2}$

1) Find the equation

slope is -5 .

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2) Find the equation of the tangent whose slope is $-\frac{1}{8}$ and touches the circle at the point $\left(\frac{2}{5}, -4\right)$.

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1) $\left(-\frac{4}{5}, 3\right)$ and slope $m = -6$

2) $\left(-\frac{3}{7}, -2\right)$ and slope $m = -\frac{4}{3}$

$$30x + 5y = -9$$

$$28x + 21y = -54$$

3) $\left(\frac{1}{2}, \frac{8}{3}\right)$ and slope

slope $m = 2$

$$42x - 30y = -59$$

5) $\left(-9, -\frac{5}{6}\right)$ and slope

slope $m = -\frac{9}{2}$

$$6x + 6y = -59$$

1) Find the equation

slope is -5 .

$$35x + 7y = -30$$

2) Find the equation of the tangent whose slope is $-\frac{1}{8}$ and touches the circle at the point $\left(\frac{2}{5}, -4\right)$.

$$5x + 40y = -158$$

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