

Equation of a Line

Slope Intercept: L2S3

Part - A

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

1) $\left(\frac{4}{7}, \frac{1}{3}\right)$ and slope $m = 6$

2) $\left(\frac{5}{6}, -\frac{8}{5}\right)$ and slope $m = 9$

3) $\left(-\frac{7}{2}, -9\right)$ and slope $m = \frac{4}{3}$

slope $m = \frac{4}{3}$

5) $\left(\frac{5}{3}, -\frac{2}{3}\right)$ and slope $m = -\frac{3}{5}$

slope $m = -\frac{3}{5}$

1) Find the equation of the line whose slope is $\frac{2}{3}$.

slope is $\frac{2}{3}$.

2) Find the equation of the tangent whose slope is 8 and touches the circle at the point $\left(-\frac{6}{5}, 4\right)$.

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