

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

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

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

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

1) Find the equation

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

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

$y = 6x - \frac{65}{21}$

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

$y = 9x - \frac{91}{10}$

3) $(-\frac{7}{2}, -9)$ and slope $m = -5$

$y = -5x - \frac{53}{2}$

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

$y = \frac{4}{3}x + \frac{1}{5}$

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

$y = \frac{7}{2}x - \frac{13}{2}$

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6) $(\frac{7}{5}, \frac{73}{15})$ and slope $m = -\frac{3}{5}$

$y = -\frac{3}{5}x + \frac{73}{15}$

1) Find the equation of the line passing through the point $(\frac{2}{3}, \frac{1}{6})$ and having slope $m = \frac{2}{3}$.

$y = \frac{2}{3}x - \frac{1}{6}$

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

$y = 8x + \frac{68}{5}$