

Equation of a Line

Slope Intercept: L2S5

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) $\left(-\frac{5}{4}, \frac{9}{2}\right)$ and slope $m = 5$

2) $\left(\frac{7}{6}, \frac{1}{9}\right)$ and slope $m = 3$

3) $\left(-1, -\frac{4}{5}\right)$ and slope $m = -10$

5) $\left(\frac{6}{5}, -7\right)$ and slope $m = \frac{5}{4}$

1) Find the equation of the line whose slope is 4.

2) Find the equation of the tangent whose slope is -6 and touches the circle at the point $\left(\frac{5}{8}, -1\right)$.

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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) $(-\frac{5}{4}, \frac{9}{2})$ and slope $m = 5$

$y = 5x + \frac{43}{4}$

2) $(\frac{7}{6}, \frac{1}{9})$ and slope $m = 3$

$y = 3x - \frac{61}{18}$

3) $(-1, -\frac{4}{5})$ and slope $m = -10$

$y = \frac{2}{9}x - \frac{26}{45}$

5) $(\frac{6}{5}, -7)$ and slope $m = \frac{5}{4}$

$y = x - \frac{41}{5}$

1) Find the equation of the line whose slope is 4.

$y = 4x + \frac{1}{9}$

2) Find the equation of the tangent whose slope is -6 and touches the circle at the point $(\frac{5}{8}, -1)$.

$y = -6x + \frac{11}{4}$

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