

## 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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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)  $(-\frac{5}{4}, \frac{9}{2})$  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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