

## Equation of a Line

Slope Intercept: L2S2

### 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)  $\left(-\frac{2}{3}, -\frac{8}{9}\right)$  and slope  $m = -5$

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

3)  $\left(\frac{5}{7}, -7\right)$  and slope

slope  $m = \frac{8}{7}$

5)  $\left(\frac{3}{4}, \frac{9}{2}\right)$  and slope

slope  $m = 2$

1) Find the equation

and whose slope is  $\frac{6}{5}$ .

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2) If the slope of the line is 10 and passes through the point  $\left(-\frac{9}{5}, -\frac{3}{4}\right)$ . Find the equation of the line.

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**Equation of a Line**

Slope Intercept: L2S2

**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)  $\left(-\frac{2}{3}, -\frac{8}{9}\right)$  and slope  $m = -5$

$y = -5x - \frac{38}{9}$

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

$y = 4x - \frac{26}{3}$

3)  $\left(\frac{5}{7}, -7\right)$  and slope

$y = 14x - 17$

slope  $m = \frac{8}{7}$

5)  $\left(\frac{3}{4}, \frac{9}{2}\right)$  and slope

$y = -3x + \frac{27}{4}$

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slope  $m = 2$

1) Find the equation

$y = \frac{6}{5}x + \frac{-6}{5}$

and whose slope is  $\frac{6}{5}$ .

2) If the slope of the line is 10 and passes through the point  $\left(-\frac{9}{5}, -\frac{3}{4}\right)$ . Find the equation of the line.

$y = 10x + \frac{69}{4}$

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