

Equation of a Line

Slope Intercept: L2S4

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) $\left(\frac{3}{2}, -9\right)$ and slope $m = 18$

2) $\left(-\frac{8}{7}, 1\right)$ and slope $m = \frac{1}{6}$

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

slope $m = 4$

5) $\left(-\frac{1}{5}, -\frac{6}{7}\right)$ and slope

slope $m = 0$

1) If the slope of the line is $m = 2$ and it passes through the point $(-1, 3)$, find the equation of the line.

Find the equation of the line.

2) Find the equation of the line q that passes through the point $\left(3, -\frac{9}{4}\right)$ and whose slope is 6.

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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) $\left(\frac{3}{2}, -9\right)$ and slope $m = 18$

$y = 18x - 36$

2) $\left(-\frac{8}{7}, 1\right)$ and slope $m = \frac{1}{6}$

$y = \frac{1}{6}x + \frac{25}{21}$

3) $\left(\frac{7}{4}, \frac{9}{2}\right)$ and slope $m = -5$

$y = -5x + \frac{53}{4}$

slope $m = 4$

5) $\left(-\frac{1}{5}, -\frac{6}{7}\right)$ and slope $m = -3$

$y = -3x - \frac{51}{35}$

slope $m = 0$

1) If the slope of the line is $-\frac{2}{9}$ and the line passes through the point $(3, -\frac{9}{4})$, find the equation of the line.

$y = -\frac{2}{9}x + \frac{1}{3}$

2) Find the equation of the line q that passes through the point $\left(3, -\frac{9}{4}\right)$ and whose slope is 6.

$y = 6x - \frac{81}{4}$

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