

Equation of a Line

Slope Intercept: L2S1

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

2) $\left(-\frac{5}{2}, -9\right)$ and slope $m = \frac{1}{4}$

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

slope $m = 6$

5) $\left(-1, -\frac{8}{3}\right)$ and slope

slope $m = -9$

1) Find the equation

circle at the point $\left(\frac{2}{7}, 5\right)$.

2) Find the equation of the line that cuts the y-axis at $\left(0, -\frac{1}{2}\right)$ and whose slope is 8.

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

$y = 3x - \frac{7}{3}$

2) $\left(-\frac{5}{2}, -9\right)$ and slope $m = \frac{1}{4}$

$y = \frac{1}{4}x - \frac{67}{8}$

3) $\left(\frac{3}{5}, \frac{7}{2}\right)$ and slope $m = 6$

$y = -2x + \frac{23}{10}$

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5) $\left(-1, -\frac{8}{3}\right)$ and slope $m = -9$

$y = \frac{6}{5}x - \frac{22}{15}$

1) Find the equation of the line that passes through the point $(-2, 5)$ and has a slope of $m = -4$.

$y = -4x + \frac{17}{7}$

2) Find the equation of the line that cuts the y-axis at $\left(0, -\frac{1}{2}\right)$ and whose slope is 8.

$y = 8x - \frac{1}{2}$