

Equation of a Line

Slope Intercept: L1S2

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) $(-9, -1)$ and slope $m = -4$

2) $(-2, 3)$ and slope $m = \frac{3}{4}$

3) $(4, 7)$ and slope $m = 3$

4) $(9, -1)$ and slope $m = -7$

5) $(-2, 9)$ and slope $m = 2$

7) $(8, -6)$ and slope $m = -3$

1) Find the equation of the line that passes through the point $(-3, -8)$.

2) Find the equation of the line that cuts the x-axis at $x = 1$ and whose slope is -1 .

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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) $(-9, -1)$ and slope $m = -4$

$$y = -4x - 37$$

2) $(-2, 3)$ and slope $m = \frac{3}{4}$

$$y = \frac{3}{4}x + \frac{9}{2}$$

3) $(4, 7)$ and slope $m = 3$

$$y = 3x - 5$$

4) $(9, -1)$ and slope $m = -7$

5) $(-2, 9)$ and slope $m = 9$

$$y = 9x + 27$$

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

$$y = -\frac{1}{7}x - \frac{34}{7}$$

1) Find the equation of the line that passes through the point $(-3, -8)$ and has a slope of $m = 2$.

$$y = 2x - 2$$

2) Find the equation of the line that cuts the x-axis at $x = 1$ and whose slope is -1 .

$$y = -x + 1$$

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