

## 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  $(-3, -8)$ .

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

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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  $m = -4$

$$y = -4x - 37$$

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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