

## Equation of a Line

Slope Intercept: L1S4

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

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

3)  $(-8, 1)$  and slope  $m = 3$

4)  $(8, -2)$  and slope  $m = -\frac{6}{7}$

5)  $(-6, -3)$  and slope  $m = -4$

7)  $(3, 6)$  and slope  $m = -2$

1) Find the equation of the line that passes through the point  $(-7, 9)$  whose slope is 9.

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2) Find the equation of the line that cuts the x-axis at  $x = -9$  and whose slope is 5.

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

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

$$y = -\frac{1}{2}x - 7$$

$$y = 9x + 43$$

3)  $(-8, 1)$  and slope  $m = 3$

4)  $(8, -2)$  and slope  $m = -\frac{6}{7}$

$$y = 3x + 25$$

5)  $(-6, -3)$  and slope  $m = -4$

$$y = -3$$

7)  $(3, 6)$  and slope  $m = -2$

$$y = 8x - 18$$

1) Find the equation of the line that passes through the point  $(-7, 42)$  whose slope is 9.

$$y = 9x - 51$$

2) Find the equation of the line that cuts the x-axis at  $x = -9$  and whose slope is 5.

$$y = 5x + 45$$

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