

## Equation of a Line

Slope Intercept: L1S3

### 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)  $(7, -2)$  and slope  $m = -2$

2)  $(-4, 5)$  and slope  $m = 7$

3)  $(-2, -8)$  and slope  $m = 4$

4)  $(1, 7)$  and slope  $m = -\frac{1}{3}$

5)  $(-9, 3)$  and slope  $m = 6$

7)  $(1, 4)$  and slope  $m = 2$

1) If the slope of the line is  $m = 3$  and it passes through the point  $(2, 5)$ , find the equation of the line.

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2) Find the equation of the line that cuts the y-axis at  $(0, 9)$  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) (7, -2) and slope  $m = -2$

2) (-4, 5) and slope  $m = 7$

$y = -2x + 12$

$y = 7x + 33$

3) (-2, -8) and slope  $m = 4$

4) (1, 7) and slope  $m = -\frac{1}{3}$

$y = 4x$

5) (-9, 3) and slope  $m = 6$

$m = 6$

$y = \frac{4}{5}x + \frac{51}{5}$

7) (1, 4) and slope  $m = 2$

$m = 2$

$y = -x + 5$

1) If the slope of the line is 8 and the line passes through the point (10, -70), write the equation of the line.

$y = 8x - 70$

2) Find the equation of the line that cuts the y-axis at (0, 9) and whose slope is 5.

$y = 5x + 9$

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