

## Equation of a Line

L1S3

### Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in standard form.

1) (5, 1) and slope  $m = 8$

2) (-2, -6) and slope  $m = 0$

3) (-9, 4) and slope  $m = 7$

4) (-3, 7) and slope  $m = -5$

5) (3, -8) and slope  $m = 3$

6)  $m = 3$

7) (4, 1) and slope  $m = \frac{2}{5}$

8)  $m = \frac{2}{5}$

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1) Find the equation of the line that cuts the y-axis at  $y = -6$  and whose slope is  $\frac{2}{7}$ .

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2) If a line passes through the point (-4, 5) with the slope 2, then find the equation of the line.

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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 standard form.

1) (5, 1) and slope  $m = 8$

2) (-2, -6) and slope  $m = 0$

$8x - y = 39$

$y = -6$

3) (-9, 4) and slope  $m = 7$

4) (-3, 7) and slope  $m = -5$

$7x - y = -67$

5) (3, -8) and slope  $m = 3$

$m = 3$

$5x - y = 23$

7) (4, 1) and slope  $m = \frac{2}{5}$

$m = \frac{2}{5}$

$x + 3y = 7$

1) Find the equation of the line that cuts the y-axis at  $y = -6$  and whose slope is  $\frac{2}{7}$ .

$2x - 7y = 42$

2) If a line passes through the point (-4, 5) with the slope 2, then find the equation of the line.

$2x - y = -13$

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