

## Equation of a Line

L1S5

### 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) (3, 8) and slope  $m = 0$

2) (-6, 0) and slope  $m = 9$

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

4) (-7, -9) and slope  $m = -6$

5) (-1, 2) and slope  $m = -2$

$m = -2$

7) (-9, -1) and slope  $m = -\frac{5}{6}$

$m = -\frac{5}{6}$

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1) Find the equation of the line that cuts the x-axis at  $x = -4$  and whose slope is 4.

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2) Find the equation of the line that passes through the point (0, -8) and whose slope is 7.

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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) (3, 8) and slope  $m = 0$

2) (-6, 0) and slope  $m = 9$

$y = 8$

$9x - y = -54$

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

4) (-7, -9) and slope  $m = -6$

$7x - y = 33$

5) (-1, 2) and slope  $m = -2$

$m = -2$

$8x + 5y = 2$

7) (-9, -1) and slope  $m = -\frac{5}{6}$

$m = -\frac{5}{6}$

$3x - y = -26$

1) Find the equation of the line that cuts the x-axis at  $x = -4$  and whose slope is 4.

$4x - y = -16$

2) Find the equation of the line that passes through the point (0, -8) and whose slope is 7.

$7x - y = 8$

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