

**Equation of a Line**

L1S1

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

2)  $(1, 5)$  and slope  $m = -7$

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

4)  $(-4, 3)$  and slope  $m = 0$

5)  $(2, -9)$  and slope  $m = 1$

6)  $(-8, -1)$  and slope  $m = \frac{2}{7}$

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

8)  $(6, -4)$  and slope  $m = -3$

**Part - B**

1) Find the equation of the line that cuts the x-axis at  $x = -1$  and whose slope is 9.

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2) Find the equation of the line that passes through the point  $(3, 6)$  and whose slope is  $-1$ .

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

2)  $(1, 5)$  and slope  $m = -7$

$5x - y = -17$

$7x + y = 12$

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

4)  $(-4, 3)$  and slope  $m = 0$

$2x - y = 5$

$y = 3$

5)  $(2, -9)$  and slope  $m = 1$

6)  $(-8, -1)$  and slope  $m = \frac{2}{7}$

$x - y = 11$

$2x - 7y = -9$

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

8)  $(6, -4)$  and slope  $m = -3$

$7x + 5y = -39$

$3x + y = 14$

Part - B1) Find the equation of the line that cuts the x-axis at  $x = -1$  and whose slope is 9.

$9x - y = -9$

2) Find the equation of the line that passes through the point  $(3, 6)$  and whose slope is  $-1$ .

$x + y = 9$