

Name : \_\_\_\_\_

Score : \_\_\_\_\_

## Equation of a Line

Slope Intercept: L1S1

### 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) (5, 8) and slope  $m = 7$

2) (1, -6) and slope  $m = -2$

3) (-1, 3) and slope  $m = \frac{1}{5}$

4) (-7, -9) and slope  $m = 8$

5) (4, -2) and slope  $m = -1$

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

7) (-9, -1) and slope  $m = 6$

8) (-3, 4) and slope  $m = -\frac{2}{3}$

### Part - B

1) Find the equation of the line that cuts the y-axis at  $y = -9$  and whose slope is  $\frac{1}{7}$ .

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2) Find the equation of the line  $u$  that passes through the point (-2, 8) and whose slope is 1.

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**Equation of a Line**

Slope Intercept: L1S1

**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) (5, 8) and slope  $m = 7$

**$y = 7x - 27$**

2) (1, -6) and slope  $m = -2$

**$y = -2x - 4$**

3) (-1, 3) and slope  $m = \frac{1}{5}$

**$y = \frac{1}{5}x + \frac{16}{5}$**

4) (-7, -9) and slope  $m = 8$

**$y = 8x + 47$**

5) (4, -2) and slope  $m = -1$

**$y = -x + 2$**

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

**$y = 3x - 12$**

7) (-9, -1) and slope  $m = 6$

**$y = 6x + 53$**

8) (-3, 4) and slope  $m = -\frac{2}{3}$

**$y = -\frac{2}{3}x + 2$**

**Part - B**

1) Find the equation of the line that cuts the y-axis at  $y = -9$  and whose slope is  $\frac{1}{7}$ .

**$y = \frac{1}{7}x - 9$**   
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2) Find the equation of the line  $u$  that passes through the point (-2, 8) and whose slope is 1.

**$y = x + 10$**   
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