

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

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

## Equation of a Line

Slope Intercept: L1S1

### Part - A

Find the equation of the line passing through the given points. Express the equation in slope-intercept form.

1)  $(-4, -7)$  and  $(-6, 9)$

2)  $(-1, 0)$  and  $(4, -5)$

3)  $(5, 5)$  and  $(-2, -2)$

4)  $(2, 8)$  and  $(1, 3)$

5)  $(7, -3)$  and  $(6, -8)$

6)  $(9, -1)$  and  $(-3, 7)$

7)  $(-9, 6)$  and  $(0, 1)$

8)  $(-7, -4)$  and  $(-5, -6)$

### Part - B

1) Find the equation of the line passing through the points  $(7, 2)$  and  $(9, 1)$ .

\_\_\_\_\_

2) Find the equation of the line  $u$  that cuts the x-axis at  $x = -6$  and the y-axis at  $y = -4$ .

\_\_\_\_\_

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

**Answer key**

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

**Equation of a Line**

Slope Intercept: L1S1

**Part - A**

Find the equation of the line passing through the given points. Express the equation in slope-intercept form.

1)  $(-4, -7)$  and  $(-6, 9)$

$$y = -8x - 39$$

2)  $(-1, 0)$  and  $(4, -5)$

$$y = -x - 1$$

3)  $(5, 5)$  and  $(-2, -2)$

$$y = x$$

4)  $(2, 8)$  and  $(1, 3)$

$$y = 5x - 2$$

5)  $(7, -3)$  and  $(6, -8)$

$$y = 5x - 38$$

6)  $(9, -1)$  and  $(-3, 7)$

$$y = -\frac{2}{3}x + 5$$

7)  $(-9, 6)$  and  $(0, 1)$

$$y = -\frac{5}{9}x + 1$$

8)  $(-7, -4)$  and  $(-5, -6)$

$$y = -x - 11$$

**Part - B**1) Find the equation of the line passing through the points  $(7, 2)$  and  $(9, 1)$ .

$$y = -\frac{1}{2}x + \frac{11}{2}$$

2) Find the equation of the line  $u$  that cuts the x-axis at  $x = -6$  and the y-axis at  $y = -4$ .

$$y = -\frac{2}{3}x - 4$$