

**Equation of a Line**

Sheet 1

**Part - A**

Find the equation of the line with the given slope and the y-intercept.

1) slope =  $-3$  ; y-intercept =  $4$

2) slope =  $-1$  ; y-intercept =  $0$

3) slope =  $\frac{1}{5}$  ; y-intercept =  $-5$

4) slope =  $2$  ; y-intercept =  $-9$

5) slope =  $-8$  ; y-intercept =  $8$

6) slope =  $-4$  ; y-intercept =  $-\frac{7}{2}$

7) slope =  $9$  ; y-intercept =  $2$

8) slope =  $5$  ; y-intercept =  $-1$

**Part - B**1) If a line cuts the y-axis at  $y = -6$  and the slope of the line is  $-10$ , find the equation of the line.

\_\_\_\_\_

2) Find the equation of the tangent whose slope is  $3$  and has the y-intercept  $1$ .

\_\_\_\_\_

**Equation of a Line**

Sheet 1

**Part - A**

Find the equation of the line with the given slope and the y-intercept.

1) slope =  $-3$  ; y-intercept = 4

**$y = -3x + 4$**

2) slope =  $-1$  ; y-intercept = 0

**$y = -x$**

3) slope =  $\frac{1}{5}$  ; y-intercept =  $-5$

**$y = \frac{1}{5}x - 5$**

4) slope =  $2$  ; y-intercept =  $-9$

**$y = 2x - 9$**

5) slope =  $-8$  ; y-intercept = 8

**$y = -8x + 8$**

6) slope =  $-4$  ; y-intercept =  $-\frac{7}{2}$

**$y = -4x - \frac{7}{2}$**

7) slope =  $9$  ; y-intercept = 2

**$y = 9x + 2$**

8) slope =  $5$  ; y-intercept =  $-1$

**$y = 5x - 1$**

**Part - B**1) If a line cuts the y-axis at  $y = -6$  and the slope of the line is  $-10$ , find the equation of the line.

**$y = -10x - 6$**

2) Find the equation of the tangent whose slope is 3 and has the y-intercept 1.

**$y = 3x + 1$**