

**Equation of a Line**

Sheet 2

**Part - A**

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

1) slope =  $\frac{5}{2}$ ; y-intercept = -8

2) slope = 8; y-intercept =  $\frac{3}{4}$

3) slope = -6; y-intercept = -4

4) slope = 1; y-intercept = 5

5) slope = -2; y-intercept = 0

y-intercept = 0

7) slope = 7; y-intercept = 3

y-intercept = 3

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1) Find the equation of a line with the slope 9 and the y-intercept -5.

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2) A line  $l$  cuts the y-axis at  $y = 4$  whose slope is -1. Find the equation of the line  $l$ .

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## Equation of a Line

### Part - A

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

1) slope =  $\frac{5}{2}$ ; y-intercept = -8

$$y = \frac{5}{2}x - 8$$

2) slope = 8; y-intercept =  $\frac{3}{4}$

$$y = 8x + \frac{3}{4}$$

3) slope = -6; y-intercept = -4

$$y = -6x - 4$$

4) slope = 1; y-intercept = 5

5) slope = -2; y-intercept = -9

$$y = -2x - 9$$

7) slope = 7; y-intercept =  $\frac{2}{3}$

$$y = 7x - \frac{2}{3}$$

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1) Find the equation of a line with the slope 9 and the y-intercept -5.

$$\underline{y = 9x - 5}$$

2) A line  $l$  cuts the y-axis at  $y = 4$  whose slope is -1. Find the equation of the line  $l$ .

$$\underline{y = -x + 4}$$