

Equation of a Line

Part - A

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

1) slope = 4 ; y-intercept = $-\frac{7}{9}$

2) slope = -6 ; y-intercept = 0

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

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

5) slope = -3 ; y-intercept = 1

y-intercept = 1

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

y-intercept = -5

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1) If the slope of a line u is 1 and it cuts the y-axis at $y = 7$, find the equation of the line u .

2) Find the equation of the tangent whose slope is -9 and has the y-intercept 3.

Equation of a Line

Sheet 4

Part - A

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

1) slope = 4 ; y-intercept = $-\frac{7}{9}$

$$y = 4x - \frac{7}{9}$$

2) slope = -6 ; y-intercept = 0

$$y = -6x$$

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

$$y = \frac{1}{2}x + 8$$

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

5) slope = -3 ; y-intercept = 1

$$y = -3x + \frac{6}{5}$$

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

$$y = 2x - 4$$

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1) If the slope of a line u is 1 and it cuts the y-axis at $y = 7$, find the equation of the line u .

$$\underline{y = x + 7}$$

2) Find the equation of the tangent whose slope is -9 and has the y-intercept 3.

$$\underline{y = -9x + 3}$$