

**Equation of a Line**

Slope Intercept: L1S5

**Part - A**

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

1)  $(9, -7)$  and  $(-8, -4)$

2)  $(-3, 8)$  and  $(0, 1)$

3)  $(-6, -2)$  and  $(3, 1)$

4)  $(4, -3)$  and  $(-6, 9)$

5)  $(-8, 5)$  and  $(0, -3)$

7)  $(-7, -4)$  and  $(-1, -2)$

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1) Find the equation of the tangent that cuts the x-axis at  $(-7, 0)$  and touches the circle at the point  $(8, -9)$ .

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2) A line cuts the x-axis at  $x = 8$  and passes through the point  $(6, 4)$ . Find the equation of the line.

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## Equation of a Line

Slope Intercept: L1S5

### Part - A

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

1) (9, -7) and (-8, -4)

$$y = -\frac{3}{17}x - \frac{92}{17}$$

2) (-3, 8) and (0, 1)

$$y = -\frac{7}{3}x + 1$$

3) (-6, -2) and (3, 1)

$$y = \frac{1}{3}x$$

4) (4, -3) and (-6, 9)

5) (-8, 5) and (0, -3)

$$y = -x - 3$$

7) (-7, -4) and (-1, -2)

$$y = \frac{1}{3}x - \frac{5}{3}$$

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1) Find the equation of the tangent that cuts the x-axis at (-7, 0) and touches the circle at the point (8, -9).

$$\underline{y = -\frac{3}{5}x - \frac{21}{5}}$$

2) A line cuts the x-axis at x = 8 and passes through the point (6, 4). Find the equation of the line.

$$\underline{y = -2x + 16}$$