

Equation of a Line

Slope Intercept: L1S3

Part - A

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

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

2) $(10, -7)$ and $(-5, 8)$

3) $(6, 2)$ and $(8, 4)$

4) $(0, 7)$ and $(1, -1)$

5) $(-3, 0)$ and $(-2, -6)$

7) $(7, 3)$ and $(4, -5)$

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1) Find the equation of the line passing through the points $(-6, 10)$ and $(9, 5)$.

2) Find the equation of the tangent that cuts the y-axis at $(0, -3)$ and touches the circle at the point $(-1, 7)$.

Equation of a Line

Slope Intercept: L1S3

Part - A

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

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

$$y = 4x + 25$$

2) $(10, -7)$ and $(-5, 8)$

$$y = -x + 3$$

3) $(6, 2)$ and $(8, 4)$

$$y = x - 4$$

4) $(0, 7)$ and $(1, -1)$

5) $(-3, 0)$ and $(-2, -6)$

$$y = -6x - 18$$

7) $(7, 3)$ and $(4, -5)$

$$y = \frac{8}{3}x - \frac{47}{3}$$

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1) Find the equation of the line passing through the points $(-6, 10)$ and $(9, 5)$.

$$y = -\frac{1}{3}x + 8$$

2) Find the equation of the tangent that cuts the y-axis at $(0, -3)$ and touches the circle at the point $(-1, 7)$.

$$y = -10x - 3$$
