

Equation of a Line

Slope Intercept: L1S2

Part - A

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

1) $(-3, 5)$ and $(6, -7)$

2) $(-2, 9)$ and $(-7, 8)$

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

4) $(-5, -6)$ and $(5, -3)$

5) $(2, 3)$ and $(4, 1)$

7) $(-9, -2)$ and $(-6, 1)$

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1) A line cuts the x-axis at $x = 4$ and passes through the point $(3, 6)$. Find the equation of the line.

2) Find the equation of the line passing through the points $(-8, -5)$ and $(-1, -3)$.

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Slope Intercept: L1S2

Part - A

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

1) $(-3, 5)$ and $(6, -7)$

$$y = -\frac{4}{3}x + 1$$

2) $(-2, 9)$ and $(-7, 8)$

$$y = \frac{1}{5}x + \frac{47}{5}$$

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

$$y = -7x - 8$$

4) $(-5, -6)$ and $(5, -3)$

5) $(2, 3)$ and $(4, 1)$

$$y = -x + 5$$

7) $(-9, -2)$ and $(-6, 1)$

$$y = x + 7$$

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1) A line cuts the x-axis at $x = 4$ and passes through the point $(3, 6)$. Find the equation of the line.

$$\underline{y = -6x + 24}$$

2) Find the equation of the line passing through the points $(-8, -5)$ and $(-1, -3)$.

$$\underline{y = \frac{2}{7}x - \frac{19}{7}}$$