

Equation of a Line

Slope Intercept: L1S4

Part - A

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

1) $(-6, 7)$ and $(-5, -9)$

2) $(7, 0)$ and $(5, -2)$

3) $(8, -2)$ and $(-1, 5)$

4) $(4, -6)$ and $(9, 0)$

5) $(5, 3)$ and $(9, -4)$

7) $(-4, -5)$ and $(2, 7)$

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1) Find the equation of the line q that cuts the y-axis at $y = 2$ and the x-axis at $x = -8$.

2) Find the equation of the line passing through the points $(0, -4)$ and $(-2, 6)$.

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Slope Intercept: L1S4

Part - A

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

1) $(-6, 7)$ and $(-5, -9)$

$$y = -16x - 89$$

2) $(7, 0)$ and $(5, -2)$

$$y = x - 7$$

3) $(8, -2)$ and $(-1, 5)$

$$y = -\frac{7}{9}x + \frac{38}{9}$$

4) $(4, -6)$ and $(9, 0)$

5) $(5, 3)$ and $(9, -4)$

$$y = -\frac{7}{4}x + \frac{47}{4}$$

7) $(-4, -5)$ and $(2, 7)$

$$y = 2x + 3$$

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1) Find the equation of the line q that cuts the y -axis at $y = 2$ and the x -axis at $x = -8$.

$$y = \frac{1}{4}x + 2$$

2) Find the equation of the line passing through the points $(0, -4)$ and $(-2, 6)$.

$$y = -5x - 4$$