

Equation of a Line

Slope Intercept: L1S5

Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in slope-intercept form.

1) $(6, 2)$ and slope $m = 8$

2) $(-9, 2)$ and slope $m = \frac{5}{7}$

3) $(-3, 1)$ and slope $m = -6$

4) $(-8, -1)$ and slope $m = -\frac{2}{9}$

5) $(5, -4)$ and slope $m = -9$

7) $(-7, -4)$ and slope $m = 1$

1) Find the equation of the line whose slope is $-\frac{5}{2}$.

2) If the slope of the line is -1 and passes through the point $(-4, 5)$. Find the equation of the line.

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Slope Intercept: L1S5

Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in slope-intercept form.

1) (6, 2) and slope $m = 8$

$$y = 8x - 46$$

2) (-9, 2) and slope $m = \frac{5}{7}$

$$y = \frac{5}{7}x + \frac{59}{7}$$

3) (-3, 1) and slope $m = -6$

$$y = -6x - 17$$

4) (-8, -1) and slope $m = -\frac{2}{9}$

5) (5, -4) and slope $m = -9$

$$y = -3x + 11$$

7) (-7, -4) and slope $m = 1$

$$y = -4$$

1) Find the equation

$$y = -\frac{5}{2}x + 2$$

2) If the slope of the line is -1 and passes through the point $(-4, 5)$. Find the equation of the line.

$$y = -x + 1$$

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