

Equation of a Line

Slope Intercept: L1S3

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) $(7, -2)$ and slope $m = -2$

2) $(-4, 5)$ and slope $m = 7$

3) $(-2, -8)$ and slope $m = 4$

4) $(1, 7)$ and slope $m = -\frac{1}{3}$

5) $(-9, 3)$ and slope $m = 6$

7) $(1, 4)$ and slope $m = 2$

1) If the slope of the line is $m = 3$ and it passes through the point $(2, 5)$, find the equation of the line.

2) Find the equation of the line that cuts the y-axis at $(0, 9)$ and whose slope is 5.

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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) (7, -2) and slope $m = -2$

2) (-4, 5) and slope $m = 7$

$y = -2x + 12$

$y = 7x + 33$

3) (-2, -8) and slope $m = 4$

4) (1, 7) and slope $m = -\frac{1}{3}$

$y = 4x$

5) (-9, 3) and slope $m = 6$

$m = 6$

$y = \frac{4}{5}x + \frac{51}{5}$

7) (1, 4) and slope $m = 2$

$m = 2$

$y = -x + 5$

1) If the slope of the line is 8 and the line passes through the point (10, -70), write the equation of the line.

$y = 8x - 70$

2) Find the equation of the line that cuts the y-axis at (0, 9) and whose slope is 5.

$y = 5x + 9$

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