

Equation of a Line

L1S4

Part - A

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

1) $(-7, -4)$ and slope $m = -5$

2) $(-8, 8)$ and slope $m = \frac{1}{6}$

3) $(9, 0)$ and slope $m = \frac{3}{4}$

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

5) $(-3, 1)$ and slope $m = -1$

6) $(2, 5)$ and slope $m = -1$

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

8) $(-1, 3)$ and slope $m = -4$

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1) Find the equation of the tangent whose slope is 3 and touches the circle at the point $(6, -9)$.

2) Find the equation of the line that cuts the y-axis at $(0, 7)$ and the slope -6 .

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1) $(-7, -4)$ and slope $m = -5$

2) $(-8, 8)$ and slope $m = \frac{1}{6}$

$5x + y = -39$

$x - 6y = -56$

3) $(9, 0)$ and slope $m = \frac{3}{4}$

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

$3x - 4y = 27$

5) $(-3, 1)$ and slope $m = -1$

$m = -1$

$7x + 2y = -19$

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

$m = -4$

$8x + y = 11$

1) Find the equation of the tangent whose slope is 3 and touches the circle at the point $(6, -9)$.

$3x - y = 27$

2) Find the equation of the line that cuts the y-axis at $(0, 7)$ and the slope -6 .

$6x + y = 7$

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