

Equation of a Line

L1S2

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

2) $(5, 6)$ and slope $m = -9$

3) $(-8, -5)$ and slope $m = -3$

4) $(-7, 3)$ and slope $m = \frac{6}{7}$

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

$m = 6$

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

$m = -4$

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1) Find the equation of the tangent whose slope is -7 and touches the circle at the point $(-5, -7)$.

2) Find the equation of the line that cuts the y-axis at $(0, 1)$ and the slope 8 .

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

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

2) (5, 6) and slope $m = -9$

$x + y = 1$

$9x + y = 51$

3) (-8, -5) and slope $m = -3$

4) (-7, 3) and slope $m = \frac{6}{7}$

$3x + y = -29$

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

$m = 6$

$5x - 4y = 6$

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

$m = -4$

$4x + 3y = -17$

1) Find the equation of the tangent whose slope is -7 and touches the circle at the point $(-5, -7)$.

$7x + y = -42$

2) Find the equation of the line that cuts the y-axis at $(0, 1)$ and the slope 8 .

$8x - y = -1$

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