

## 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)  $(-2, 3)$  and slope  $m = -1$

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

8)  $(-1, 4)$  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  $(6, -9)$ .

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

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