Point-Slope Form

Part - A

Find the equation of the line whose slope and the point through which it passes are given.

1) (−1, 9) and slope m = −10

2) (−3, 8) and slope m = $\frac{1}{3}$

3) (0, −2) and slope m = 0

4) (1, 7) and slope m = −2

5) (−5, −4) and slope m = −3

6) (4, −6) and slope m = 5

7) (7, 6) and slope m = 4

8) (−9, −7) and slope m = $-\frac{4}{9}$

Part - B

1) Find the equation of the line passing through the point (2, 3) and has a slope equal to $-\frac{1}{8}$.

2) A line cuts the y-axis at y = 10. If the slope of the line is 6, find the equation of the line.