Equation of a Line

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) (4, −9) and slope m = $-\dfrac{1}{2}$

2) (−5, −2) and slope m = 9

3) (−8, 1) and slope m = 3

4) (8, −2) and slope m = $-\dfrac{6}{7}$

5) (−6, −3) and slope   m = −4

7) (3, 6) and slope m   m = −2

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1) Find the equation of the line   that passes through the point (3, 3) and whose slope is 9.

2) Find the equation of the line that cuts the x-axis at x = −9 and whose slope is 5.

Answer key

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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) (4, −9) and slope m = $-\dfrac{1}{2}$

2) (−5, −2) and slope m = 9

$y = -\dfrac{1}{2}x - 7$

$y = 9x + 43$

3) (−8, 1) and slope m = 3

4) (8, −2) and slope m = $-\dfrac{6}{7}$

$y = 3x + 25$

5) (−6, −3) and slope ~~~~~~~~~~~~~~~~~~~~~ n = −4

$y = -3$

7) (3, 6) and slope m ~~~~~~~~~~~~~~~~~~~~~ m = −2

$y = 8x - 18$

1) Find the equation ~~~~~~~~~~~~~~~~~~~~~ whose slope is 9.

$y = 9x - 51$

2) Find the equation of the line that cuts the x-axis at x = −9 and whose slope is 5.

$y = 5x + 45$