

## Equation of a Line

L2S5

### 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)  $\left(\frac{1}{5}, -8\right)$  and slope  $m = \frac{3}{2}$

2)  $\left(-\frac{3}{7}, 2\right)$  and slope  $m = -3$

3)  $\left(-\frac{9}{2}, -\frac{1}{3}\right)$  and slope  $m = 8$

slope  $m = 8$ 

5)  $\left(\frac{5}{6}, 1\right)$  and slope  $m = \frac{5}{3}$

slope  $m = \frac{5}{3}$ 

1) Find the equation of the line that passes through the point  $\left(\frac{7}{2}, 3\right)$  and has a slope of  $m = -2$ .

circle at the point  $\left(\frac{7}{2}, 3\right)$ .

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2) Find the equation of the line that cuts the y-axis at  $y = -\frac{8}{5}$  and whose slope is  $-1$ .

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2)  $\left(-\frac{3}{7}, 2\right)$  and slope  $m = -3$

$15x - 10y = 83$

$21x + 7y = 5$

3)  $\left(-\frac{9}{2}, -\frac{1}{3}\right)$  and slope  $m = 8$

slope  $m = 8$ 

$6x + 24y = -35$

157

5)  $\left(\frac{5}{6}, 1\right)$  and slope  $m = \frac{5}{3}$

slope  $m = \frac{5}{3}$ 

$30x + 6y = 31$

17

1) Find the equation of the line that passes through the point  $(-2, 3)$  and is parallel to the line  $y = 2x + 1$ .

circle at the point  $\left(\frac{7}{2}, 3\right)$ .

$14x - 2y = 43$

2) Find the equation of the line that cuts the y-axis at  $y = -\frac{8}{5}$  and whose slope is  $-1$ .

$5x + 5y = -8$

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