

## Equation of a Line

L2S1

### 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)  $\left(\frac{2}{3}, 1\right)$  and slope  $m = \frac{4}{5}$

2)  $\left(\frac{1}{5}, 0\right)$  and slope  $m = -9$

3)  $\left(-\frac{5}{6}, \frac{4}{7}\right)$  and slope

slope  $m = \frac{2}{7}$

5)  $\left(4, -\frac{3}{8}\right)$  and slope

slope  $m = -1$

1) Find the equation

and whose slope is  $-\frac{7}{9}$ .

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2) Find the equation of the line that cuts the y-axis at  $\left(0, \frac{2}{5}\right)$  and whose slope is  $\frac{1}{6}$ .

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**$12x - 15y = -7$**

**$45x + 5y = 9$**

3)  $\left(-\frac{5}{6}, \frac{4}{7}\right)$  and slope

slope  $m = \frac{2}{7}$

**$42x + 21y = -23$**

**$-130$**

5)  $\left(4, -\frac{3}{8}\right)$  and slope

slope  $m = -1$

**$40x - 8y = 163$**

**$22$**

1) Find the equation

and whose slope is  $-\frac{7}{9}$ .

**$28x + 36y = -15$**

2) Find the equation of the line that cuts the y-axis at  $\left(0, \frac{2}{5}\right)$  and whose slope is  $\frac{1}{6}$ .

**$5x - 30y = -12$**

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