

## Equation of a Line

L2S2

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

2)  $\left(-\frac{3}{7}, -2\right)$  and slope  $m = -\frac{4}{3}$

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

slope  $m = 2$ 

5)  $\left(-9, -\frac{5}{6}\right)$  and slope

slope  $m = -\frac{9}{2}$ 

1) Find the equation

slope is  $-5$ .

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2) Find the equation of the tangent whose slope is  $-\frac{1}{8}$  and touches the circle at the point  $\left(\frac{2}{5}, -4\right)$ .

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

2)  $\left(-\frac{3}{7}, -2\right)$  and slope  $m = -\frac{4}{3}$

**$30x + 5y = -9$**

**$28x + 21y = -54$**

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

slope  $m = 2$ 

**$42x - 30y = -59$**

5)  $\left(-9, -\frac{5}{6}\right)$  and slope

slope  $m = -\frac{9}{2}$ 

**$6x + 6y = -59$**

1) Find the equation

slope is  $-5$ .

**$35x + 7y = -30$**

2) Find the equation of the tangent whose slope is  $-\frac{1}{8}$  and touches the circle at the point  $\left(\frac{2}{5}, -4\right)$ .

**$5x + 40y = -158$**

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