

## Equation of a Line

L2S4

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

2)  $\left(-1, \frac{3}{8}\right)$  and slope  $m = -\frac{1}{6}$

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

slope  $m = -1$ 

5)  $\left(-\frac{1}{8}, 9\right)$  and slope

slope  $m = 6$ 

1) Find the equation

slope is 9.

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2) Find the equation of the line  $k$  that passes through the point  $\left(\frac{1}{2}, 1\right)$  and whose slope is  $\frac{2}{5}$ .

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$8x - 4y = 7$

$4x + 24y = 5$

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

d slope  $m = -1$ **PREVIEW**

$4x - 9y = 45$

:  $-13$ 

5)  $\left(-\frac{1}{8}, 9\right)$  and slope

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slope  $m = 6$ 

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$8x + 2y = 17$

1) Find the equation

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slope is 9.

$18x - 2y = 15$

2) Find the equation of the line  $k$  that passes through the point  $\left(\frac{1}{2}, 1\right)$  and whose slope is  $\frac{2}{5}$ .

$2x - 5y = -4$