

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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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 $m = -9$

$12x - 15y = -7$

$45x + 5y = 9$

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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