

Equation of a Line

L2S3

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) $\left(\frac{7}{2}, -4\right)$ and slope $m = -8$

2) $\left(\frac{5}{4}, 8\right)$ and slope $m = \frac{7}{2}$

3) $\left(\frac{3}{5}, -\frac{9}{4}\right)$ and slope

slope $m = -3$

5) $\left(-8, \frac{6}{7}\right)$ and slope

slope $m = 7$

1) Find the equation

slope is $-\frac{1}{2}$.

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2) If the slope of the line is 4 and passes through the point $\left(-\frac{6}{5}, 9\right)$. Find the equation of the line.

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1) $\left(\frac{7}{2}, -4\right)$ and slope $m = -8$

2) $\left(\frac{5}{4}, 8\right)$ and slope $m = \frac{7}{2}$

$8x + y = 24$

$28x - 8y = 99$

3) $\left(\frac{3}{5}, -\frac{9}{4}\right)$ and slope

slope $m = -3$

$20x - 20y = 33$

5) $\left(-8, \frac{6}{7}\right)$ and slope

slope $m = 7$

$14x + 21y = -94$

1) Find the equation

slope is $-\frac{1}{2}$.

$2x + 4y = 3$

2) If the slope of the line is 4 and passes through the point $\left(-\frac{6}{5}, 9\right)$. Find the equation of the line.

$20x - 5y = -69$

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