

Equation of a Line

L2S5

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) $\left(\frac{1}{5}, -8\right)$ and slope $m = \frac{3}{2}$

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

3) $\left(-\frac{9}{2}, -\frac{1}{3}\right)$ and slope $m = 8$

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

1) Find the equation of the line that passes through the point $\left(\frac{7}{2}, 3\right)$ and has a slope of $m = -2$.

2) Find the equation of the line that cuts the y-axis at $y = -\frac{8}{5}$ and whose slope is -1 .

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1) $\left(\frac{1}{5}, -8\right)$ and slope $m = \frac{3}{2}$

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

$15x - 10y = 83$

$21x + 7y = 5$

3) $\left(-\frac{9}{2}, -\frac{1}{3}\right)$ and slope

slope $m = 8$

$6x + 24y = -35$

157

5) $\left(\frac{5}{6}, 1\right)$ and slope

slope $m = \frac{5}{3}$

$30x + 6y = 31$

17

1) Find the equation

circle at the point $\left(\frac{7}{2}, 3\right)$.

$14x - 2y = 43$

2) Find the equation of the line that cuts the y-axis at $y = -\frac{8}{5}$ and whose slope is -1 .

$5x + 5y = -8$

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