

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 $m = 8$

slope $m = 8$

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

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 $m = -2$.

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

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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