

Equation of a Line

Slope Intercept: L2S5

Part - A

Find the equation of the line passing through the given points. Express the equation in slope-intercept form.

1) $\left(-4, -\frac{3}{2}\right)$ and $\left(-\frac{2}{3}, -5\right)$

2) $\left(-\frac{9}{7}, -\frac{1}{2}\right)$ and $\left(\frac{2}{7}, 1\right)$

3) $\left(\frac{1}{4}, \frac{7}{2}\right)$ and $\left(2, -\frac{4}{3}\right)$

$\left(-\frac{4}{3}, -2\right)$

5) $\left(3, -\frac{2}{5}\right)$ and $\left(\frac{7}{3}, \frac{4}{9}\right)$

$\left(-\frac{7}{8}, \frac{4}{9}\right)$

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1) A line cuts the y-axis at $y = \frac{1}{3}$ and the x-axis at $x = \frac{2}{3}$. Find the equation of the line.

). Find the equation

2) Find the equation of the line n that cuts the x-axis at $x = -\frac{5}{2}$ and the y-axis at $y = \frac{1}{3}$.

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Part - A

Find the equation of the line passing through the given points. Express the equation in slope-intercept form.

1) $\left(-4, -\frac{3}{2}\right)$ and $\left(-\frac{2}{3}, -5\right)$

$$y = -\frac{21}{20}x - \frac{57}{10}$$

2) $\left(-\frac{9}{7}, -\frac{1}{2}\right)$ and $\left(\frac{2}{7}, 1\right)$

$$y = \frac{21}{22}x + \frac{8}{11}$$

3) $\left(\frac{1}{4}, \frac{7}{2}\right)$ and $\left(2, -\frac{4}{3}\right)$

$$y = -\frac{46}{21}x + \frac{85}{21}$$

5) $\left(3, -\frac{2}{5}\right)$ and $\left(\frac{7}{3}, \frac{4}{9}\right)$

$$y = -\frac{9}{10}x + \frac{23}{10}$$

1) A line cuts the y-axis at $\frac{9}{5}$ and the x-axis at $-\frac{9}{5}$. Find the equation of the line.

$$y = \frac{98}{5}x + \frac{9}{5}$$

2) Find the equation of the line n that cuts the x-axis at $x = -\frac{5}{2}$ and the y-axis at $y = \frac{1}{3}$.

$$y = \frac{2}{15}x + \frac{1}{3}$$

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