

Equation of a Line

Slope Intercept: L2S2

Part - A

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

1) $\left(-\frac{5}{4}, -6\right)$ and $\left(-\frac{3}{2}, -1\right)$

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

3) $\left(-\frac{2}{3}, 8\right)$ and $\left(-\frac{5}{6}, 2\right)$

$\left(\frac{9}{2}, -\frac{7}{6}\right)$

5) $\left(\frac{8}{3}, \frac{3}{4}\right)$ and $\left(-\frac{1}{6}, -2\right)$

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

1) Find the equation of the line passing through the point $(-3, 4)$ and the y-axis at $y = \frac{9}{7}$.

y-axis at $y = \frac{9}{7}$.

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2) A line cuts the y-axis at $\left(0, \frac{4}{3}\right)$ and passes through the point $\left(-\frac{5}{4}, -1\right)$. Find the equation of the line.

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

1) $\left(-\frac{5}{4}, -6\right)$ and $\left(-\frac{3}{2}, -1\right)$

$$y = -20x - 31$$

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

$$y = \frac{4}{3}x + \frac{2}{3}$$

3) $\left(-\frac{2}{3}, 8\right)$ and $\left(-\frac{5}{6}, 2\right)$

$$y = 40x + \frac{104}{3}$$

$\left(\frac{9}{2}, -\frac{7}{6}\right)$

5) $\left(\frac{8}{3}, \frac{3}{4}\right)$ and $\left(-\frac{1}{6}, -2\right)$

$$y = \frac{39}{34}x - \frac{157}{68}$$

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

1) Find the equation of the line passing through the point $\left(-\frac{3}{4}, -\frac{1}{2}\right)$ and the y-axis at $y = \frac{9}{7}$.

$$y = \frac{45}{28}x + \frac{9}{7}$$

2) A line cuts the y-axis at $\left(0, \frac{4}{3}\right)$ and passes through the point $\left(-\frac{5}{4}, -1\right)$. Find the equation of the line.

$$y = \frac{28}{15}x + \frac{4}{3}$$

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