

# 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  $\left(0, \frac{1}{2}\right)$  and the x-axis at  $\left(\frac{1}{3}, 0\right)$ . Find the equation of the line.

). Find the equation

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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  $-\frac{98}{5}$ . 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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