

# Equation of a Line

L2S1

## Part - A

Find the equation of the line passing through the given points. Express the equation in standard form.

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

2)  $\left(\frac{2}{5}, -\frac{7}{6}\right)$  and  $\left(-\frac{1}{2}, -\frac{1}{4}\right)$

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

$\left(\frac{2}{9}, \frac{7}{3}\right)$

5)  $\left(-7, \frac{5}{9}\right)$  and  $\left(-8, \frac{1}{3}\right)$

$\left(9, -\frac{5}{4}\right)$

1) Find the equation of the line passing through the points  $(-2, 7)$  and  $(-1, 7)$ .

$(-2, 7)$

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

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### Part - A

Find the equation of the line passing through the given points. Express the equation in standard form.

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

$$3x - 12y = 2$$

2)  $\left(\frac{2}{5}, -\frac{7}{6}\right)$  and  $\left(-\frac{1}{2}, -\frac{1}{4}\right)$

$$55x + 54y = -41$$

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

$$24x + 17y = -111$$

$\left(\frac{2}{9}, \frac{7}{3}\right)$

5)  $\left(-7, \frac{5}{9}\right)$  and  $\left(-8, \frac{1}{3}\right)$

$$2x - 9y = -19$$

$\left(9, -\frac{5}{4}\right)$

1) Find the equation of the line passing through the points  $(-7, 7)$  and  $(-1, 7)$ .

$$\underline{8x - 5y = -29}$$

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

$$\underline{4x + 2y = -1}$$

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