

Equation of a Line

Slope Intercept: L2S1

Part - A

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

1) $\left(1, -\frac{3}{5}\right)$ and $\left(\frac{5}{7}, -2\right)$

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

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

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

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

$\left(\frac{3}{7}, \frac{8}{3}\right)$

1) Find the equation of the line passing through the points $\left(\frac{1}{2}, -\frac{5}{6}\right)$ and $\left(\frac{1}{2}, -\frac{5}{6}\right)$.

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

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2) Find the equation of the tangent that cuts the x-axis at $\left(\frac{5}{2}, 0\right)$ and touches the circle at the point $\left(-\frac{3}{4}, -1\right)$.

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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) $\left(1, -\frac{3}{5}\right)$ and $\left(\frac{5}{7}, -2\right)$

$$y = \frac{49}{10}x - \frac{11}{2}$$

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

$$y = -\frac{42}{25}x + \frac{47}{25}$$

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

$$y = \frac{2}{21}x + \frac{9}{7}$$

5) $\left(6, -\frac{5}{8}\right)$ and $\left(4, \frac{3}{7}, \frac{8}{3}\right)$

$$y = -\frac{11}{16}x + \frac{7}{2}$$

1) Find the equation of the line passing through the points $\left(\frac{1}{2}, -\frac{5}{6}\right)$ and $\left(\frac{3}{4}, \frac{8}{3}\right)$.

$$y = \frac{3}{11}x - \frac{32}{33}$$

2) Find the equation of the tangent that cuts the x-axis at $\left(\frac{5}{2}, 0\right)$ and touches the circle at the point $\left(-\frac{3}{4}, -1\right)$.

$$y = \frac{4}{13}x - \frac{10}{13}$$

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