

Equation of a Line

Slope Intercept: L2S4

Part - A

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

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

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

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

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

5) $\left(-\frac{7}{6}, 3\right)$ and $\left(\frac{1}{2}, 3\right)$

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

1) Find the equation of the line passing through the points $\left(-\frac{1}{2}, 3\right)$ and $\left(\frac{1}{2}, -\frac{9}{8}\right)$.

$\left(\frac{1}{2}, -\frac{9}{8}\right)$

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2) Find the equation of the tangent that cuts the y-axis at $\left(0, \frac{1}{7}\right)$ and touches the circle at the point $\left(\frac{2}{7}, 6\right)$.

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

$$y = -\frac{7}{22}x + \frac{67}{88}$$

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

$$y = \frac{1}{3}x + \frac{5}{12}$$

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

$$y = \frac{11}{15}x + \frac{26}{5}$$

5) $\left(-\frac{7}{6}, 3\right)$ and $\left(\frac{1}{2}, \frac{3}{2}\right)$

$$y = -\frac{9}{20}x + \frac{99}{40}$$

1) Find the equation of the line passing through the points $\left(\frac{1}{2}, -\frac{9}{8}\right)$ and $\left(-\frac{1}{6}, \frac{3}{2}\right)$.

$$y = -\frac{19}{28}x - \frac{11}{14}$$

2) Find the equation of the tangent that cuts the y-axis at $\left(0, \frac{1}{7}\right)$ and touches the circle at the point $\left(\frac{2}{7}, 6\right)$.

$$y = \frac{41}{2}x + \frac{1}{7}$$

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