

Equation of a Line

Slope Intercept: L2S3

Part - A

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

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

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

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

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

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

$\frac{1}{6}, 2)$

1) A line cuts the y-axis at $(0, 4)$ and has a slope of $\frac{1}{2}$. Find the equation of the line.

). Find the equation

2) Find the equation of the line passing through the points $\left(-\frac{1}{6}, 6\right)$ and $\left(\frac{7}{4}, \frac{9}{2}\right)$.

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

$$y = \frac{45}{14}x - \frac{471}{56}$$

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

$$y = \frac{26}{27}x + \frac{23}{54}$$

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

$$y = \frac{25}{84}x + \frac{29}{56}$$

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

$\frac{7}{4}$

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

$$y = -\frac{25}{32}x + \frac{49}{16}$$

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

$\frac{1}{6}, 2)$

1) A line cuts the y
of the line.

$$y = \frac{7}{5}x + \frac{1}{5}$$

). Find the equation

2) Find the equation of the line passing through the points $\left(-\frac{1}{6}, 6\right)$ and $\left(\frac{7}{4}, \frac{9}{2}\right)$.

$$y = \frac{18}{19}x + \frac{117}{19}$$

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