

Equation of a Line

Part - A

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

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

2) $\left(\frac{9}{2}, -1\right)$ and $\left(-\frac{5}{6}, 1\right)$

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

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

5) $\left(\frac{3}{5}, 1\right)$ and $\left(9, -\frac{7}{2}\right)$

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

1) A line cuts the y-axis at $(0, -2)$ and has a slope of $\frac{1}{3}$. Find the equation of the line.

Find the equation

2) Find the equation of the line passing through the points $\left(8, \frac{3}{8}\right)$ and $\left(6, \frac{9}{4}\right)$.

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

$52x + 2y = 51$

2) $\left(\frac{9}{2}, -1\right)$ and $\left(-\frac{5}{6}, 1\right)$

$6x + 16y = 11$

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

$11x - 60y = -78$

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

70

5) $\left(\frac{3}{5}, 1\right)$ and $\left(9, -\frac{7}{2}\right)$

$15x + 28y = 37$

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

-13

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1) A line cuts the y-axis at $(0, -13)$ and the x-axis at $(8, 0)$. Find the equation of the line.

Find the equation

$24x + 35y = -70$

2) Find the equation of the line passing through the points $\left(8, \frac{3}{8}\right)$ and $\left(6, \frac{9}{4}\right)$.

$15x + 16y = 126$