Name : _____ Score : _____

Equation of a Line

L2S2

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-a

Find the equation of the line.

_____

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

_____

Name : _____ **Answer key** Score : _____

Equation of a Line

L2S2

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

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

70

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

15x + 28y = 37

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

–13

1) A line cuts the y-a… Find the equation of the line.

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