Name : _____ Score : _____

Equation of a Line

Slope Intercept: L2S5

Part - A

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

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

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

3) $\left(\frac{1}{4}, \frac{7}{2}\right)$ and $\left(2, -\right.$ $\left.-\frac{4}{3}, -2\right)$

5) $\left(3, -\frac{2}{5}\right)$ and $\left(\frac{7}{3}\right.$ $\left.-\frac{7}{8}, \frac{4}{9}\right)$

1) A line cuts the y). Find the equation of the line.

_____

2) Find the equation of the line n that cuts the x-axis at $x = -\frac{5}{2}$ and the y-axis at $y = \frac{1}{3}$.

_____

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

Equation of a Line

Slope Intercept: L2S5

Part - A

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

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

$y = -\frac{21}{20}x - \frac{57}{10}$

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

$y = \frac{21}{22}x + \frac{8}{11}$

3) $\left(\frac{1}{4}, \frac{7}{2}\right)$ and $\left(2, -\right.$ $\left.-\frac{4}{3}, -2\right)$

$y = -\frac{46}{21}x + \frac{85}{21}$ $\frac{56}{23}$

5) $\left(3, -\frac{2}{5}\right)$ and $\left(\frac{7}{3}\right.$ $\left(-\frac{7}{8}, \frac{4}{9}\right)$

$y = -\frac{9}{10}x + \frac{23}{10}$ $\frac{51}{99}$

1) A line cuts the y). Find the equation of the line.

$y = \frac{98}{5}x + \frac{9}{5}$

2) Find the equation of the line n that cuts the x-axis at $x = -\frac{5}{2}$ and the y-axis at $y = \frac{1}{3}$.

$y = \frac{2}{15}x + \frac{1}{3}$