Name : _____ Score : _____

Equation of a Line

Slope Intercept: L2S2

Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in slope-intercept form.

1) $\left(-\frac{2}{3}, -\frac{8}{9}\right)$ and slope m = –5

2) $\left(\frac{7}{3}, \frac{2}{3}\right)$ and slope m = 4

3) $\left(\frac{5}{7}, -7\right)$ and slope

slope m = $\frac{8}{7}$

5) $\left(\frac{3}{4}, \frac{9}{2}\right)$ and slope

slope m = 2

1) Find the equatio

and whose slope is $\frac{6}{5}$.

_____

2) If the slope of the line is 10 and passes through the point $\left(-\frac{9}{5}, -\frac{3}{4}\right)$. Find the equation of the line.

_____

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

Equation of a Line

Slope Intercept: L2S2

Part - A

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in slope-intercept form.

1) $\left(-\frac{2}{3}, -\frac{8}{9}\right)$ and slope m = –5

$y = -5x - \frac{38}{9}$

2) $\left(\frac{7}{3}, \frac{2}{3}\right)$ and slope m = 4

$y = 4x - \frac{26}{3}$

3) $\left(\frac{5}{7}, -7\right)$ and slope

$y = 14x - 17$

slope m = $\frac{8}{7}$

$\frac{7}{7}$

5) $\left(\frac{3}{4}, \frac{9}{2}\right)$ and slope

$y = -3x + \frac{27}{4}$

slope m = 2

1) Find the equatio

and whose slope is $\frac{6}{5}$.

$y = \frac{6}{5}x + \frac{\quad}{5}$

2) If the slope of the line is 10 and passes through the point $\left(-\frac{9}{5}, -\frac{3}{4}\right)$. Find the equation of the line.

$y = 10x + \frac{69}{4}$