Name : _____ Score : _____

Equation of a Line

L2S5

Part - A

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

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

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

3) $\left(-\frac{9}{2}, -\frac{1}{3}\right)$ and slo ope m = 8

5) $\left(\frac{5}{6}, 1\right)$ and slope slope m = $\frac{5}{3}$

1) Find the equatio rcle at the point $\left(\frac{7}{2}, 3\right)$.

_____

2) Find the equation of the line that cuts the y-axis at y = $-\frac{8}{5}$ and whose slope is -1.

_____

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

L2S5

Equation of a Line

Part - A

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

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

15x – 10y = 83

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

21x + 7y = 5

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

ope m = 8

6x + 24y = –35

157

5) $\left(\frac{5}{6}, 1\right)$ and slope

slope m = $\frac{5}{3}$

30x + 6y = 31

17

1) Find the equatio

rcle at the point $\left(\frac{7}{2}, 3\right)$.

14x – 2y = 43

2) Find the equation of the line that cuts the y-axis at y = $-\frac{8}{5}$ and whose slope is –1.

5x + 5y = –8