# 6.4 – WRITING THE EQUATION OF A LINE

Write an equation of a line in slope-intercept form of each line described.

Slope-intercept Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. slope $2$ and y-intercept of $15$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. slope $\frac{-1}{2}$, and y - intercept of $-7$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. slope $\frac{9}{5}$ and y-intercept $-6$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write an equation of a line in point-slope form of each line described.

Point-slope Form: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. slope $-3$ and x-intercept of $-3$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. slope $1$ and through the point $\left(2, 5\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. slope $\frac{-2}{3}$ and through the point $\left(3, -6\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. slope $0$ and through the point $\left(-3, -5\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_