NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PERIOD\_\_\_\_\_

6.4 – Writing the Equation of a Line

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

1. slope $2$; y-intercept $5$ \_\_\_\_\_\_\_\_\_\_\_\_\_

2. slope $–3$; y-intercept $-4$ \_\_\_\_\_\_\_\_\_\_\_\_\_

3. slope $-\frac{2}{3}$; y-intercept $9$ \_\_\_\_\_\_\_\_\_\_\_\_\_

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

4. slope $\frac{1}{2}$; x-intercept $4$ \_\_\_\_\_\_\_\_\_\_\_\_\_

5. slope $–3$; x-intercept $3$ \_\_\_\_\_\_\_\_\_\_\_\_\_

6. slope $2$; passes through $\left(-5, 1\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

7. slope $3$; passes through $\left(4, 1\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

8. slope $–2$; passes through $\left(3, 5\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

9. slope $–1$; passes through $\left(8, 5\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

10. slope $\frac{1}{3}$; passes through $\left(6, -1\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

11. slope $-\frac{3}{4}$; passes through $\left(8, -3\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

12. slope $-\frac{2}{5}$; passes through $\left(5, 7\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_

13. slope $0$; passes through $\left(1, 3\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_