Name _____ Date _____

Practice Set 4.5

The Point-Slope Form of the Equation of a Line

Write (a) the point slope of the equation of the line satisfying each of the conditions. Then use the point slope form of the equation to (b) write the slope-intercept form of the equation.

1. slope –2 passing through (3,1) 1a. _____

   b. _____

2. passing through (1, 4) (–2, –2) 2a. _____

   b. _____

3. slope $\frac{-2}{3}$ passing through (0, 1) 3a. _____

   b. _____

4. passing through (2, –1) (4, –1) 4a. _____

   b. _____

5. slope –4 passing through the origin 5a. _____

   b. _____

6. slope –1 passing through (–3, 2) 6a. _____

   b. _____

7. passing through (0, 4) (3, 7) 7a. _____

   b. _____

8. slope –2 passing through (1, 0) 8a. _____

   b. _____

9. slope $\frac{1}{2}$ passing through (–2, 4) 9a. _____

   b. _____

10. *x*-intercept 3 and *y*-intercept –1 10a. _____

    b. _____