NAME _____ DATE _____ PERIOD _____

5-3

Skills Practice

Slope-Intercept Form

Solve number 14 for y on the back of this page, label it, box answer, etc. then put graph for #14 on this side.

Rest of problems can be shown on this side if neat. Mr. C.

Write an equation of the line with the given slope and *y*-intercept.

1. slope: 5, y-intercept: -3

2. slope: -2, y-intercept: 7

3. slope: -6, y-intercept: -2

4. slope: 7, y-intercept: 1

5. slope: 3, y-intercept: 2

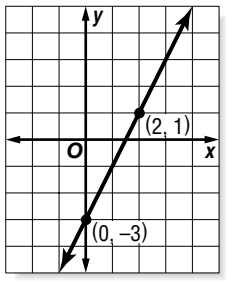
6. slope: -4, y-intercept: -9

7. slope: 1, y-intercept: -12

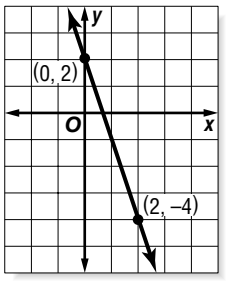
8. slope: 0, y-intercept: 8

Write an equation of the line shown in each graph.

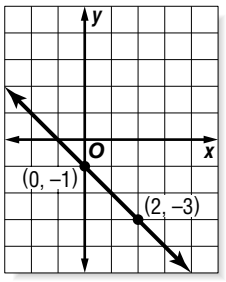
9.



10.

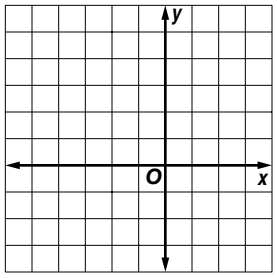


11.

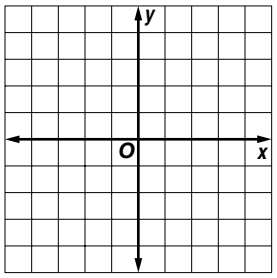


Graph each equation.

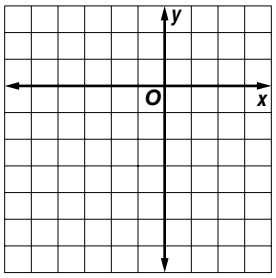
12. $y = x + 4$



13. $y = -2x - 1$



14. $x + y = -3$



Write a linear equation in slope-intercept form to model each situation.

TIP: b is your "starting value, slope is your rate - "something per something"

NOTE: #15 is done.

15. A video store charges $10 for a rental card plus $2 per rental.

example: C = 2R + 10 where C is charge and R is number of rentals, $10 is your "starting value"

16. A Norfolk pine is 18 inches tall and grows at a rate of 1.5 feet per year.

17. A Cairn terrier weighs 30 pounds and is on a special diet to lose 2 pounds per month.

18. An airplane at an altitude of 3000 feet descends at a rate of 500 feet per mile.

Lesson 5-3