

5-3

Practice

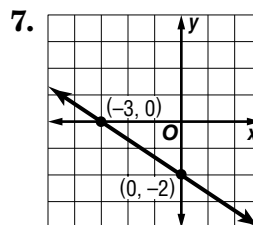
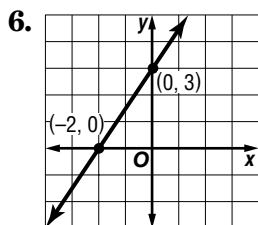
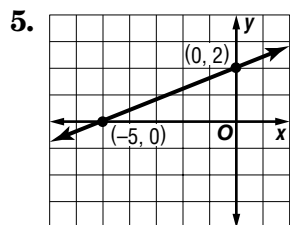
Work on this sheet is OK if neat, box answers.

Slope-Intercept Form

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

1. slope: $\frac{1}{4}$, y-intercept: 3
2. slope: $\frac{3}{2}$, y-intercept: -4
3. slope: 1.5, y-intercept: -1
4. slope: -2.5, y-intercept: 3.5

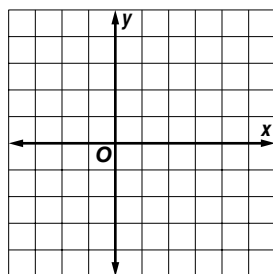
Write an equation of the line shown in each graph.



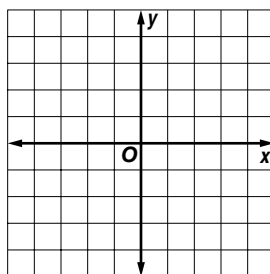
Graph each equation.

Tip: get y by itself first in 9 and 10

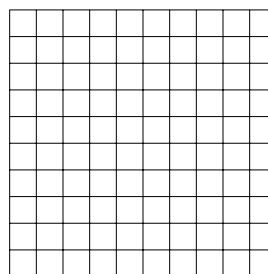
8. $y = -\frac{1}{2}x + 2$



9. $3y = 2x - 6$



10. $6x + 3y = 6$



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

11. A computer technician charges \$75 for a consultation plus \$35 per hour.
12. The population of Pine Bluff is 6791 and is decreasing at the rate of 7 per year.

WRITING For Exercises 13–15, use the following information.

Carla has already written 10 pages of a novel. She plans to write 15 additional pages per month until she is finished.

13. Write an equation to find the total number of pages P written after any number of months m .

14. Graph the equation on the grid at the right.

15. Find the total number of pages written after 5 months.

$y = mx + b$
 $P = 15m + 10$

Carla's Novel

