

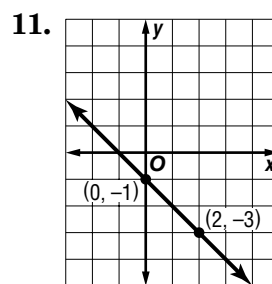
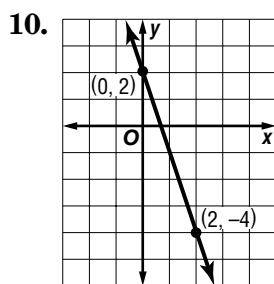
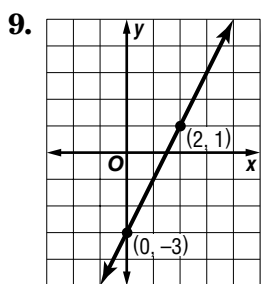
5-3 Skills Practice

Slope-Intercept Form

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

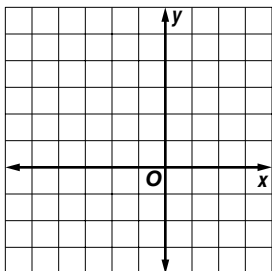
- | | |
|-------------------------------|-------------------------------|
| 1. slope: 5, y-intercept: -3 | 2. slope: -2, y-intercept: 7 |
| 3. slope: -6, y-intercept: -2 | 4. slope: 7, y-intercept: 1 |
| 5. slope: 3, y-intercept: 2 | 6. slope: -4, y-intercept: -9 |
| 7. slope: 1, y-intercept: -12 | 8. slope: 0, y-intercept: 8 |

Write an equation of the line shown in each graph.

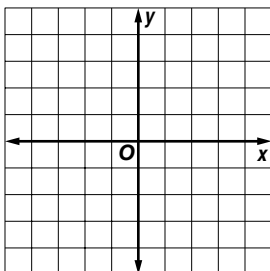


Graph each equation.

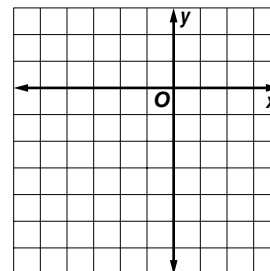
12. $y = x + 4$



13. $y = -2x - 1$



14. $x + y = -3$



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

- A video store charges \$10 for a rental card plus \$2 per rental.
- A Norfolk pine is 18 inches tall and grows at a rate of 1.5 feet per year.
- A Cairn terrier weighs 30 pounds and is on a special diet to lose 2 pounds per month.
- An airplane at an altitude of 3000 feet descends at a rate of 500 feet per mile.