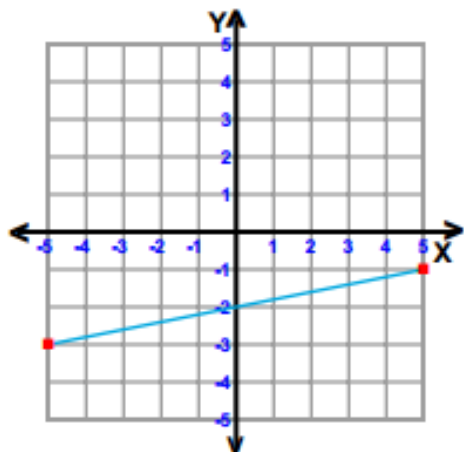
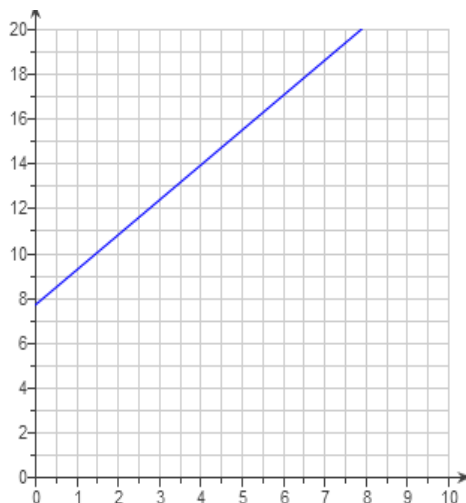


5.5 The y-intercept of a line

1. What is the y-intercept of the line?



2. What is the y-intercept of the line?

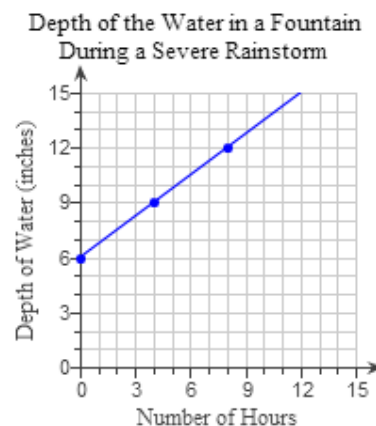


3. What is the y-intercept of the line $y = \frac{1}{2}x - 5$?

4. What is the y-intercept of the line $y = -2x$?

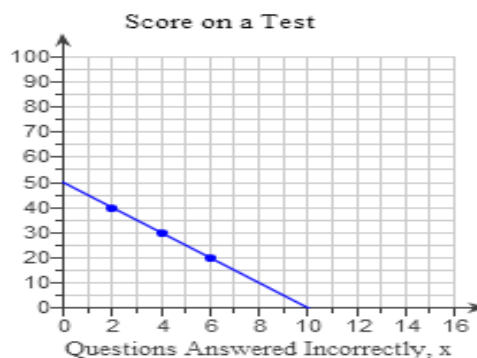
5. What is the y-intercept of the line $y = -10$?

6. The line models the depth of the water in a small fountain during a severe rainstorm. What is the y-intercept? What does the y-intercept represent?



7. Each question on a 50-point test is worth 5 points. Partial answers receive partial credit. The line models this situation.

- What is the y-intercept of the line?
- What does the y-intercept of the line represent?
- What is the slope of the line?



8. A cell phone company charges a \$25 startup fee and then \$0.45 for every minute used. Write an equation that represents this situation.

- Equation:
- What is the y-intercept?
- What does the y-intercept represent?

Find the slope from the pair of points or line.

9. $(-4, -2)$ $(-3, -4)$

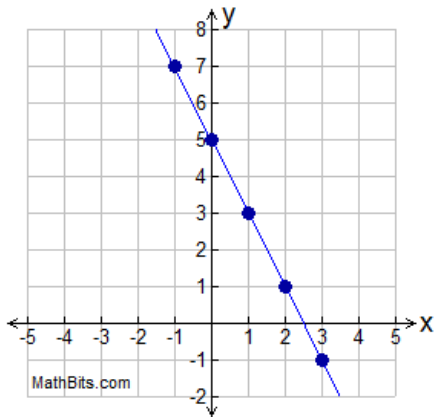
10. $(5, -5)$ $(5, 5)$

11. $(0, 2)$ $(4, 5)$

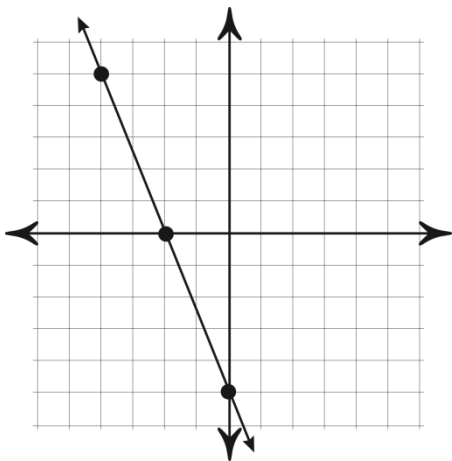
12. $(1, -5)$ $(-2, 5)$

Identify the slope and the y-intercept.

13.

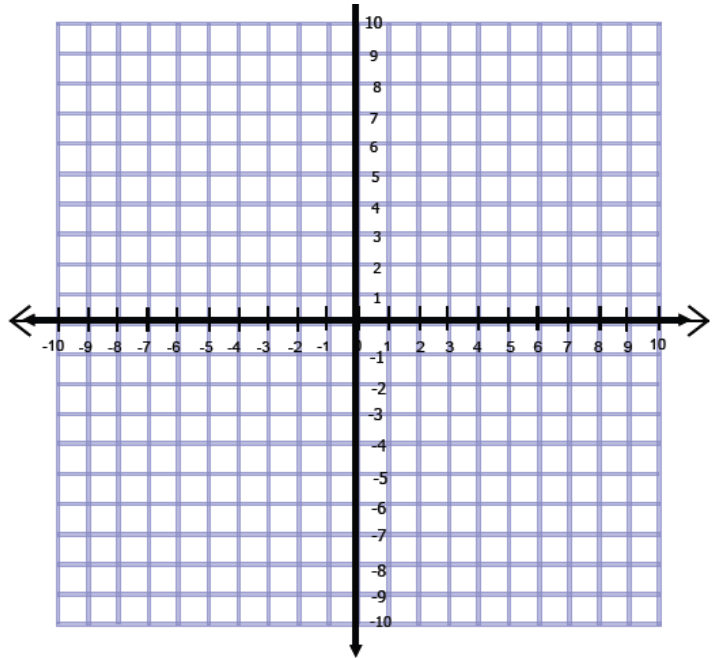


14.



Graph each line.

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



16. $y = 2x$

