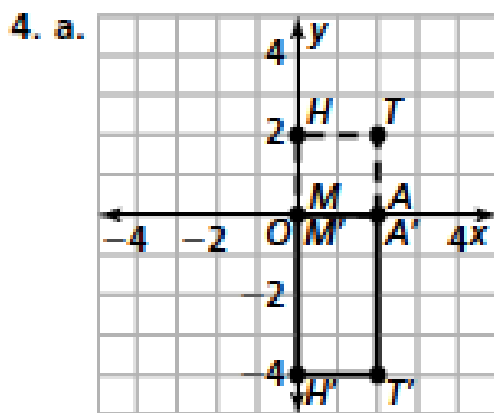
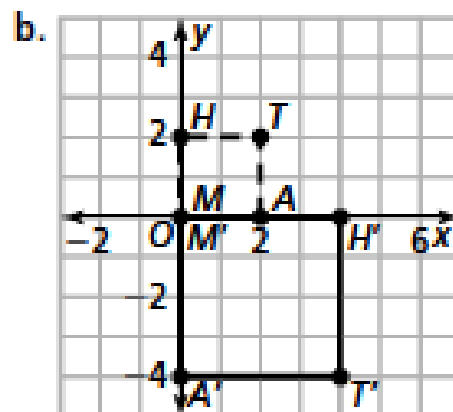


Lesson 3.02 Additional Practice

- The new point is below the original point.
- Add a positive value to the x -coordinate. Leave the y -coordinate the same.
- $(-4, -6)$; the point is reflected across the x -axis.
 - $(4, 6)$; the point is reflected across the y -axis.
 - $(4, -6)$; the point is reflected across the origin, or rotated 180° .



Answers may vary. Sample: The shape is reflected across the x -axis. It has the same horizontal length and twice the vertical height as the original.



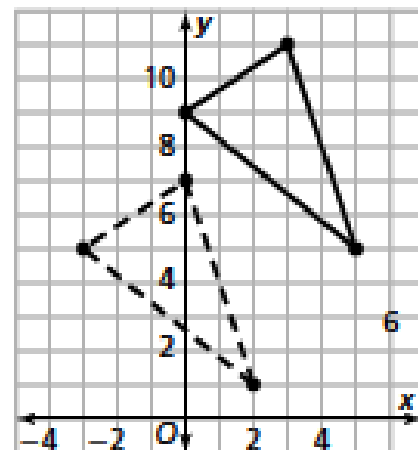
Answers may vary. Sample: The square is rotated 90° clockwise and the length of each side is doubled.

- Yes; answers may vary. Samples:

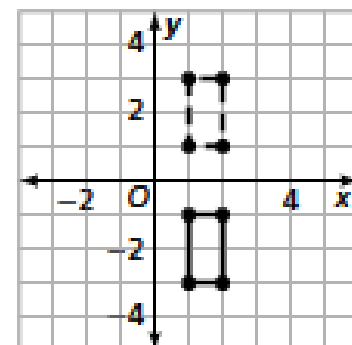
Any oblique line that contains the origin passes through exactly two quadrants. ($y = 2x$ passes through Quadrants I and III; $y = -x$ passes through Quadrants II and IV.)

Any vertical or horizontal line that does not contain the origin passes through exactly two quadrants. ($y = 5$ passes through Quadrants I and II; $x = -3$ passes through Quadrants II and III.)

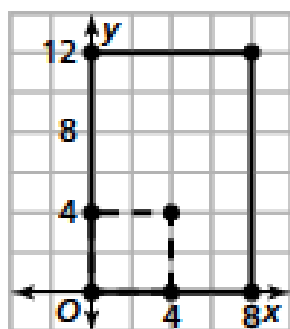
- Yes; the x -axis ($y = 0$) and the y -axis ($x = 0$) pass through no quadrants.
- The triangle shifts 3 units right and 4 units up.



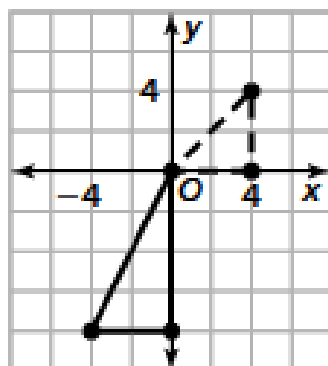
- The rectangle moves 4 units down.



- The square becomes a rectangle; the horizontal side is twice as long and the vertical side is three times as long.



10. The triangle is reflected across the x -axis and rotated 90° clockwise. Then the vertical height is doubled.

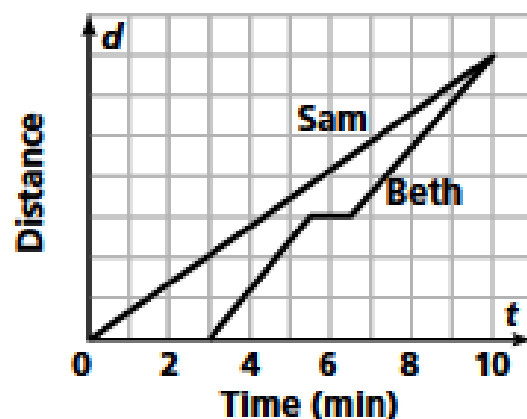


Lessons 3.03 and 3.04 Additional Practice

1. a. "Find the two numbers that are 5 units away from 11." The solutions are 16 and 6.
b. "Find the two numbers that are 12 units away from -3 ." The solutions are 9 and -15 .
c. "Find the numbers that are less than 3 units away from 4." The solution is $1 < x < 7$.
2. a. 10 b. 13 c. 17
3. Answers may vary. Sample:
 - a. $|x| = 17$ b. $|x - 11| = 4$
 - c. $|x - 6| = 0$ d. $|x + 8| = 3$
 - e. $|x - 3| = 5$ f. $|x| = -1$
4. a. 15, -15 b. 5, -5
c. 1.5, -1.5 d. $\pm \frac{1}{20}$
e. You can divide to solve the equation and write " \pm " in front of the quotient.

5. Answers may vary. Sample:
 - a. Fred reads a constant number of pages per minute.
 - b. The wingspan of a bird increases at a constant rate as the length of the bird grows.
6. a. B and C b. C and D
c. A and B

7. a. **Sam's and Beth's Exercise**



- b. **Cathy's and Dave's Walk**

