

Answers for Lesson 3-7, pp. 143–144 Exercises

1. Line a is a line of symmetry if one half of the figure matches the other half exactly when the figure is reflected over line a .

2. D

3. G

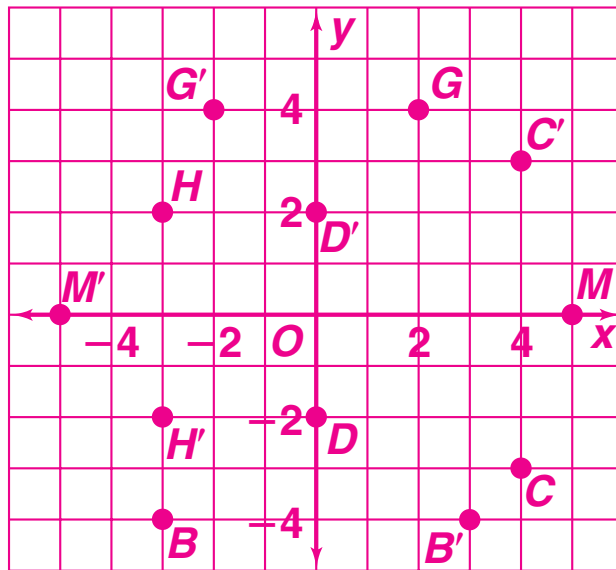
4. E

5. G

6. D

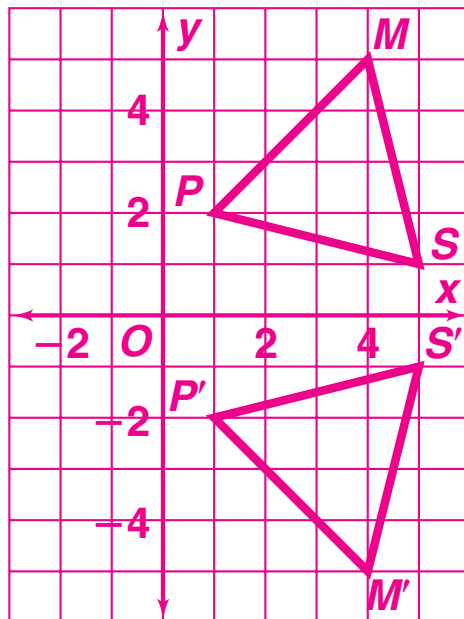
7. F

8–13.



$H'(-3, -2)$, $G'(-2, 4)$,
 $B'(3, -4)$, $D'(0, 2)$,
 $C'(4, 3)$, $M'(-5, 0)$

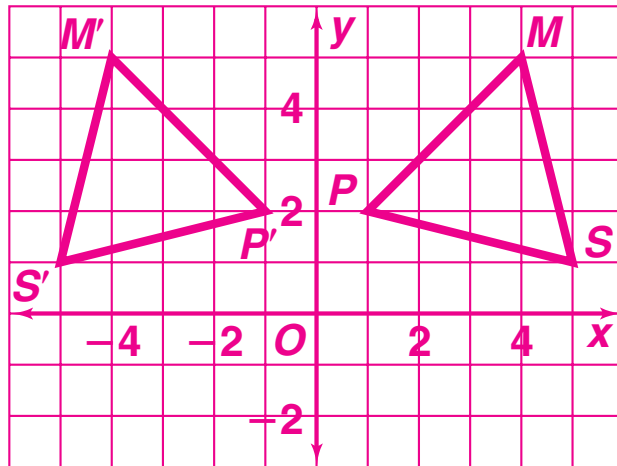
14.



$M'(4, -5)$, $P'(1, -2)$, $S'(5, -1)$

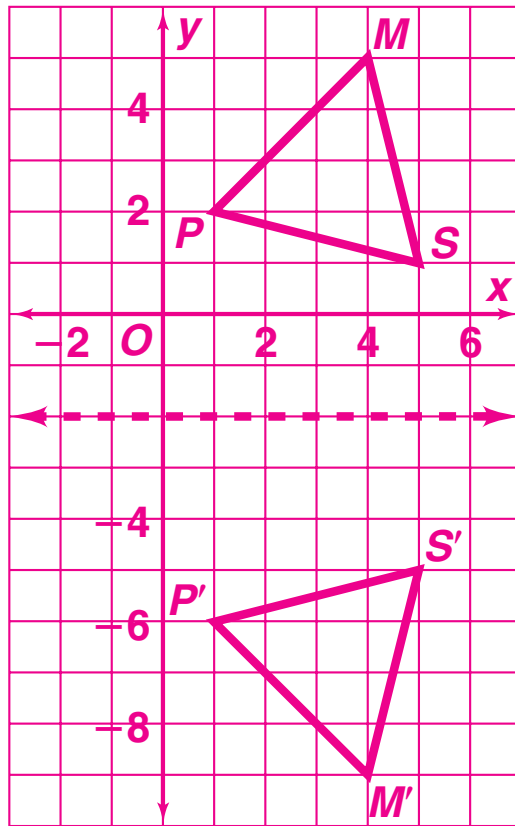
Answers for Lesson 3-7, pp. 143–144 Exercises (cont.)

15.



$M'(-4, 5), P'(-1, 2), S'(-5, 1)$

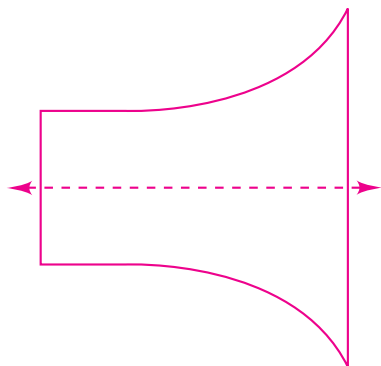
16.



$M'(4, -9), P'(1, -6), S'(5, -5)$

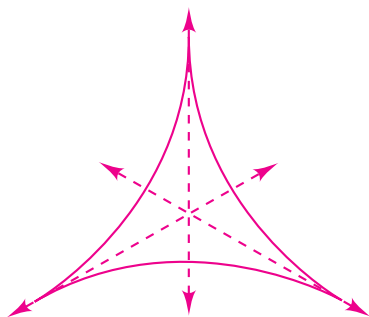
Answers for Lesson 3-7, pp. 143–144 Exercises (cont.)

17.



18. no reflectional symmetry

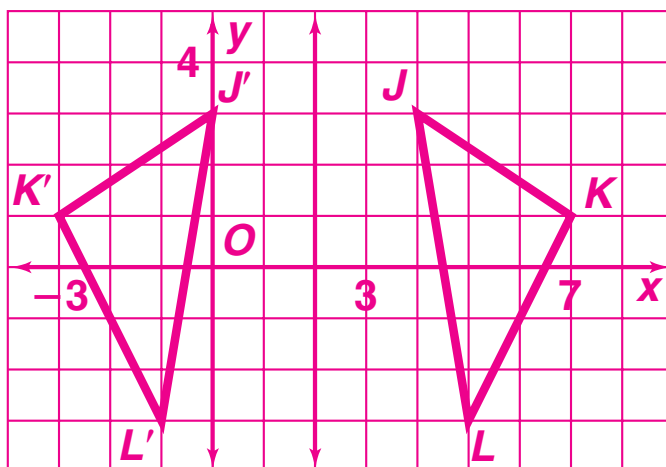
19.



20. Yes; 1 line

21. A, B, C, D, E, H, I, K, M, O, T, U, V, W, X, Y

22. a.

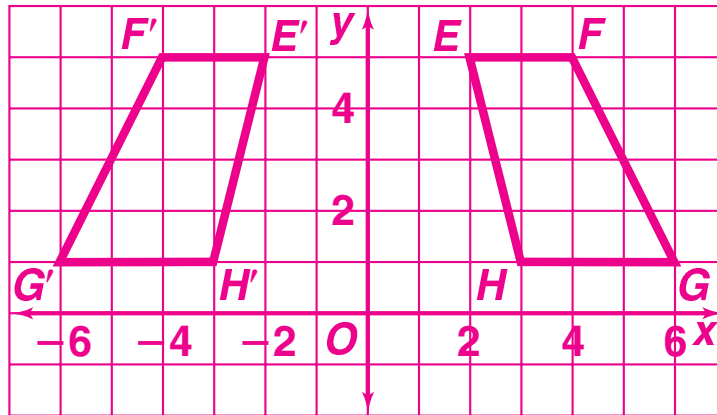


$J'(0, 3)$, $K'(-3, 1)$, $L'(-1, -3)$; the y -coordinates did not change.

b. $J''(-3, 3)$, $K''(-6, 1)$, $L''(-4, -3)$

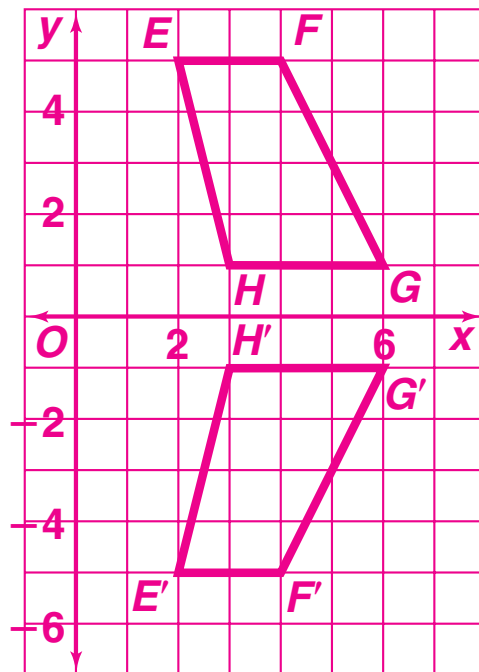
Answers for Lesson 3-7, pp. 143–144 Exercises (cont.)

23.



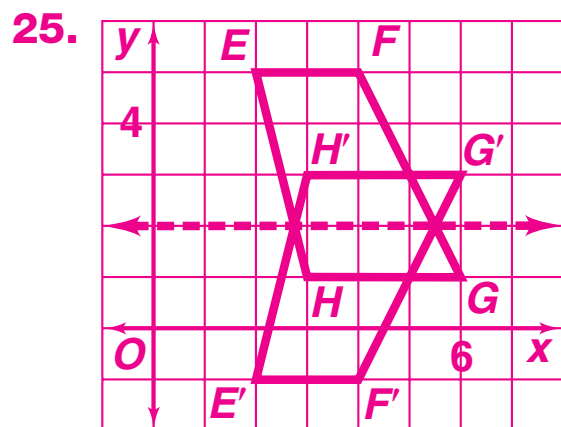
$E'(-2, 5), F'(-4, 5), G'(-6, 1), H'(-3, 1)$

24.

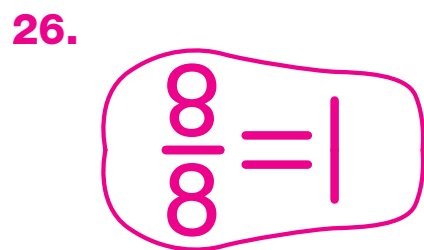


$E'(2, -5), F'(4, -5), G'(6, -1), H'(3, -1)$

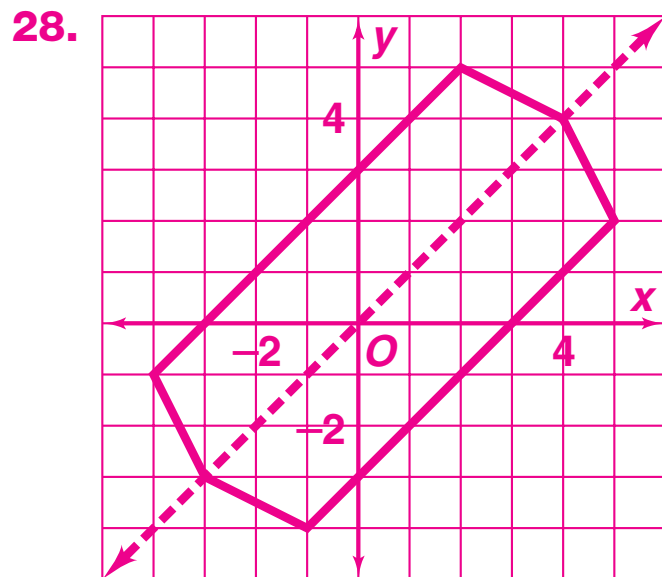
Answers for Lesson 3-7, pp. 143–144 Exercises (cont.)



$E'(2, -1), F'(4, -1), G'(6, 3), H'(3, 3)$



27. An infinite number; any line passing through the center of a circle is a line of symmetry.



29. B

30. J

31. B

32. 10

33. 13

34. 25