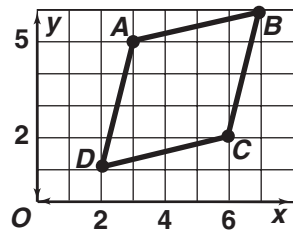
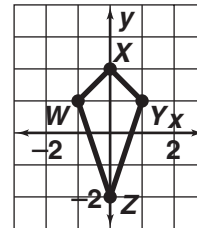


Answers for Lesson 6-1, pp. 308–311 Exercises

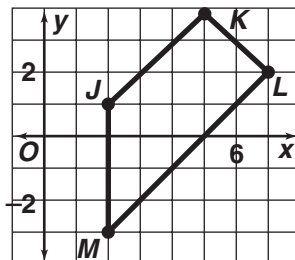
1. \square , rectangle, rhombus, square
2. parallelogram
3. trapezoid
4. \square , rhombus
5. kite
6. trapezoid, isosc. trapezoid
7. rhombus
8. parallelogram
9. rhombus
10. rectangle
11. kite
12. isosc. trapezoid
13. rhombus



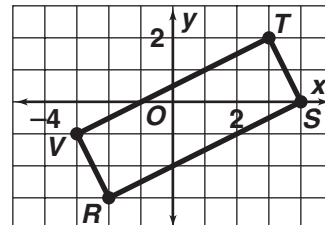
14. kite



15. trapezoid

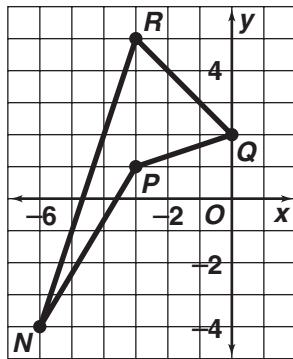


16. rectangle

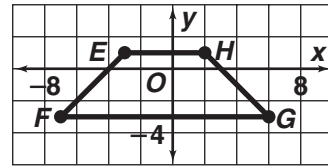


Answers for Lesson 6-1, pp. 308–311 Exercises (cont.)

17. quadrilateral



18. isos. trapezoid



19. $x = 11, y = 29; 13, 13, 23, 23$

20. $x = 4, y = 4.8; 4.5, 4.5, 6.8, 6.8$

21. $x = 2, y = 6; 2, 7, 7, 2$

22. $x = 1; 4, 2, 4, 7$

23. $x = 3, y = 5; 15, 15, 15, 15$

24. $x = 5, y = 4; 3, 3, 3, 3$

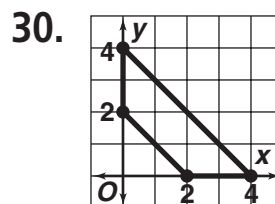
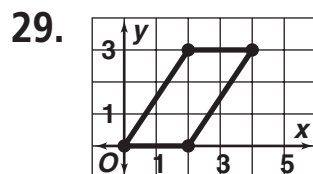
25. $40, 40, 140, 140; 11, 11, 15, 32$

26. $58, 58, 122, 122; 6, 6, 6, 6$

27. rectangle, square, trapezoid

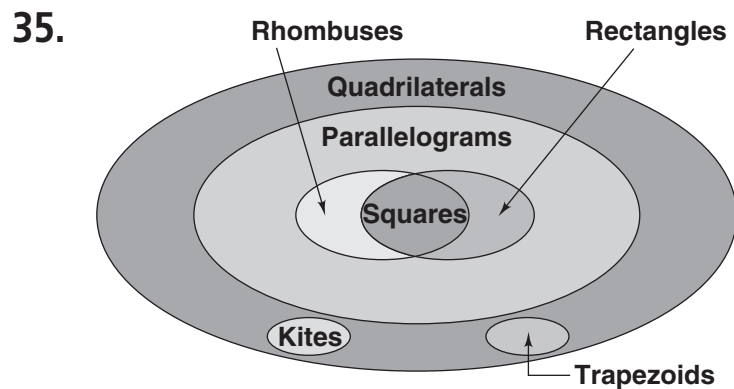
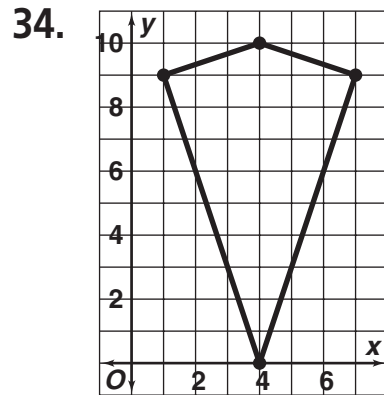
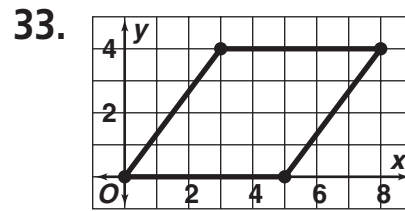
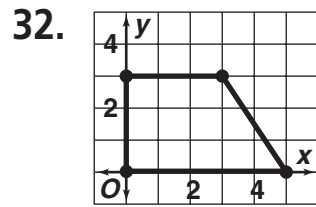
28. D

29–34. Answers may vary. Samples are given.



31. Impossible; a trapezoid with one rt. \angle must have another, since two sides are \parallel .

Answers for Lesson 6-1, pp. 308–311 Exercises (cont.)



36. True; a square is both a rectangle and a rhombus.
37. False; a trapezoid only has one pair of \parallel sides.
38. False; a kite does not have \cong opp. sides.
39. True; all squares are \square .
40. False; kites are not \square .
41. False; only rhombuses with rt. \sphericalangle s are squares.
42. Rhombus; all 4 sides are \cong because they come from the same cut.
43. Check students' work.

Answers for Lesson 6-1, pp. 290–293 Exercises (cont.)

44. A rhombus has 4 \cong sides, while a kite has 2 pairs of adj. sides \cong , but no opp. sides are \cong . Opp. sides of a rhombus are \parallel , while opp. sides of a kite are not \parallel .

45–48. Check students' sketches.

45. some isos. trapezoids, some trapezoids

46. \square , rhombus, rectangle, square

47. rectangle, square

48. rhombus, square, kite, some trapezoids

49. A trapezoid has only one pair of \parallel sides.

50–53. Check students' sketches.

50. rectangle, \square , kite

51. rhombus, \square

52. square, rhombus, \square

53. rhombus, \square , kite

54–55. Check students' work.

56–59. Explanations may vary. Samples are given.

56. \square , rectangle, trapezoid

57. \square , kite, rhombus, trapezoid, isos. trapezoid

58. kite, \square , rhombus, trapezoid, isos. trapezoid

59. \square , rectangle, square, rhombus, kite, trapezoid