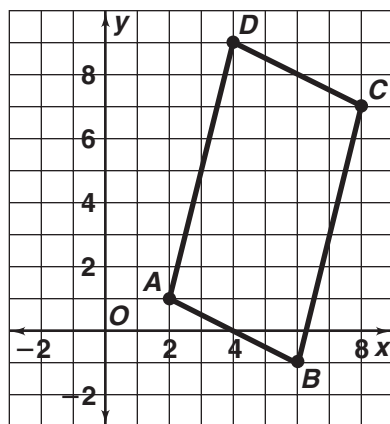


Answers for Lesson 1-8, pp. 56–58 Exercises

- | | | |
|----------------------|--------------------------|---------------------|
| 1. 6 | 2. 18 | 3. 8 |
| 4. 9 | 5. 23.3 | 6. 10 |
| 7. 25 | 8. 12.2 | 9. 12.0 |
| 10. 9 mi | 11. about 4.5 mi | 12. about 3.2 mi |
| 13. 6.4 | 14. 15.8 | 15. 15.8 |
| 16. 5.0 | 17. B, C, D, E, F | 18. (4, 2) |
| 19. (3, 1) | 20. (3.5, 1) | 21. (6, 1) |
| 22. (-2.25, 2.1) | 23. $(3\frac{7}{8}, -3)$ | 24. (10, -20) |
| 25. (5, -1) | 26. (0, -34) | 27. (12, -24) |
| 28. (9, -28) | 29. (5.5, -13.5) | 30. (8, 18) |
| 31. (4, -11) | 32. 5.0; (4.5, 4) | 33. 5.8; (1.5, 0.5) |
| 34. 7.1; (-1.5, 0.5) | 35. 5.4; (-2.5, 3) | 36. 10; (1, -4) |
| 37. 2.8; (-4, -4) | 38. 6.7; (-2.5, -2) | 39. 5.4; (3, 0.5) |
| 40. 2.2; (3.5, 1) | 41. IV | |

42.



The midpts. are the same, (5, 4).
The diagonals bisect each other.

Answers for Lesson 1-8, pp. 56–58 Exercises (cont.)

43. B

44. 19.2 units; $(-1.5, 0)$

45. 10.8 units; $(3, -4)$

46. 5.4 units; $(-1, 0.5)$

47. 165 units; The dist. TV is less than the dist. TU , so the airplane should fly from T to V to U for the shortest route.

48. Z ; about 12 units

49. 934 mi

50. 1073 mi

51. 2693 mi

52. 328 mi

53–56. Answers may vary. Samples are given.

53. $(3, 6), (0, 4.5)$

54. $E(0, 0), (8, 4)$

55. $(1, 0), (-1, 4)$

56. $(0, 10), (5, 0)$

57. exactly one pt., $H(-5, 2)$

58. exactly one pt., $J(2, -2)$

59. a–f. Answers may vary. Samples are given.

a. $BC = AD$

b. If two opp. sides of a quad. are both \parallel and \cong , then the other two opp. sides are \cong .

c. The midpts. are the same.

d. If one pair of opp. sides of a quad. are both \parallel and \cong , then its diagonals bisect each other.

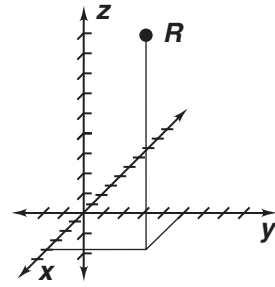
e. $EF = AB$

f. If a pair of opp. sides of a quad. are both \parallel and \cong , then the segment joining the midpts. of the other two sides has the same length as each of the first pair of sides.

Answers for Lesson 1-8, pp. 56–58 Exercises (cont.)

60. $A (0, 0, 0)$
 $B (6, 0, 0)$
 $C (6, -3.5, 0)$
 $D (0, -3.5, 0)$
 $E (0, 0, 9)$
 $F (6, 0, 9)$
 $G (0, -3.5, 9)$

61.



62. 6.5 units

63. 11.7 units