

1-7

Practice

Form G

Midpoint and Distance in the Coordinate Plane

Find the coordinate of the midpoint of the segment with the given endpoints.

1. 3 and 5 **4** 2. -7 and 4 **$-\frac{3}{2}$** 3. 5 and -9 **-2** 4. -6 and -10 **-8**

Find the coordinates of the midpoint of \overline{AB} .

5. $A(6, 7)$, $B(4, 3)$ **$(5, 5)$** 6. $A(-1, 5)$, $B(2, -3)$ **$(\frac{1}{2}, 1)$**
 7. $A(14, -2)$, $B(7, -8)$ **$(10\frac{1}{2}, -5)$** 8. $A(0, 0)$, $B(-5, 12)$ **$(-2\frac{1}{2}, 6)$**
 9. $A(2.8, 1.1)$, $B(-3.4, 5.7)$ **$(-0.3, 3.4)$** 10. $A(2\frac{1}{2}, -\frac{1}{4})$, $B(3\frac{1}{4}, -1)$ **$(2\frac{7}{8}, -\frac{5}{8})$**

The coordinates of point Y are given. The midpoint of \overline{XY} is $(3, -5)$. Find the coordinates of point X .

11. $Y(0, 2)$ **$(6, -12)$** 12. $Y(-10, 5)$ **$(16, -15)$** 13. $Y(7, 1)$ **$(-1, -11)$**
 14. $Y(4, -8)$ **$(2, -2)$** 15. $Y(-1, -9)$ **$(7, -1)$** 16. $Y(2.5, -6.5)$ **$(3.5, -3.5)$**

Find the distance between each pair of points. If necessary, round to the nearest tenth.

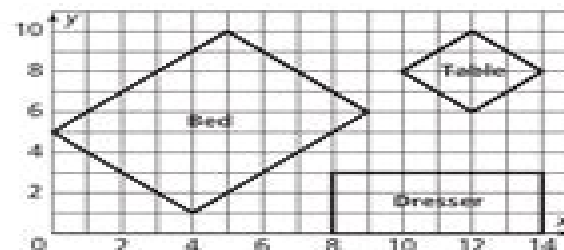
17. $A(6, 7)$, $B(-1, 7)$ **7** 18. $C(5, -5)$, $D(5, 3)$ **8**
 19. $E(-1, 0)$, $F(12, 0)$ **13** 20. $Q(2, -6)$, $R(10, 0)$ **10**
 21. $H(20, -4)$, $J(-4, 3)$ **25** 22. $J(-5, 5)$, $K(-3, -2)$ **7.3**

The room shown below right is 14 ft by 10 ft. Find the dimensions of each piece of furniture to the nearest tenth.

23. length and width of the dresser **6 ft \times 3 ft**
 24. length and width of the table **2.8 ft \times 2.8 ft**
 25. length and width of the bed **7.1 ft \times 5.7 ft**

26. **Reasoning** The midpoint of \overline{AB} is on the y -axis, and \overline{AB} is parallel to the x -axis. Point A is located in Quadrant III. Which quadrant contains point B ? Explain.

IV; Answers may vary. Sample: Suppose A is at $(-4, -5)$, which is a point in Quadrant III. Then B will be on the opposite side of the y -axis at $(4, -5)$ in Quadrant IV.



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Terry C. Jones



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Table of Contents Distance And Midpoint Worksheet Answers

1. Understanding the eBook Distance And Midpoint Worksheet Answers
 - The Rise of Digital Reading Distance And Midpoint Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Distance And Midpoint Worksheet Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Distance And Midpoint Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Distance And Midpoint Worksheet Answers
 - Personalized Recommendations
 - Distance And Midpoint Worksheet Answers User Reviews and Ratings
 - Distance And Midpoint Worksheet Answers and Bestseller Lists
5. Accessing Distance And Midpoint Worksheet Answers Free and Paid eBooks

- Distance And Midpoint Worksheet Answers Public Domain eBooks
 - Distance And Midpoint Worksheet Answers eBook Subscription Services
 - Distance And Midpoint Worksheet Answers Budget-Friendly Options
6. Navigating Distance And Midpoint Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Distance And Midpoint Worksheet Answers Compatibility with Devices
 - Distance And Midpoint Worksheet Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Distance And Midpoint Worksheet Answers
 - Highlighting and Note-Taking Distance And Midpoint Worksheet Answers
 - Interactive Elements Distance And Midpoint Worksheet Answers
 8. Staying Engaged with Distance And Midpoint Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Distance And Midpoint Worksheet Answers
 9. Balancing eBooks and Physical Books Distance And Midpoint Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Distance And Midpoint Worksheet Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Distance And Midpoint Worksheet Answers
 - Setting Reading Goals Distance And Midpoint Worksheet Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Distance And Midpoint Worksheet Answers
 - Fact-Checking eBook Content of Distance And Midpoint Worksheet Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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