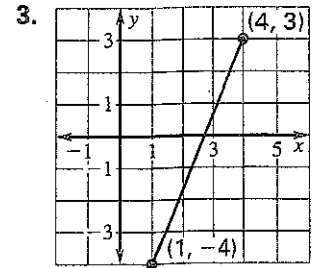
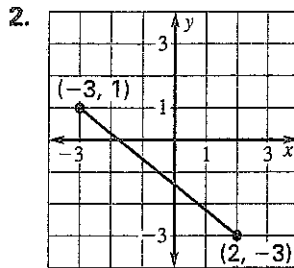
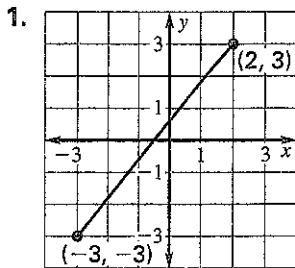


Practice A

For use with pages 730–735

Use the coordinate plane to estimate the distance between the two points. Then use the distance formula to find the distance between the points. Round the result to the nearest hundredth if necessary.



Find the distance between the two points. Round the result to the nearest hundredth if necessary.

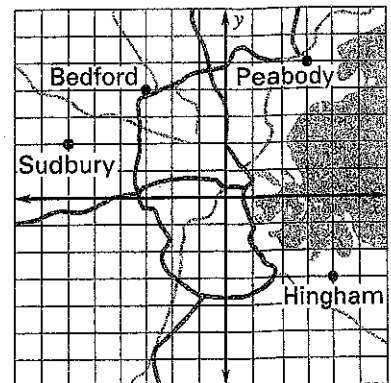
- | | | |
|----------------------|----------------------|------------------------|
| 4. (1, 1), (4, 4) | 5. (2, 5), (5, 1) | 6. (0, 3), (2, 6) |
| 7. (1, 6), (5, 1) | 8. (-2, 8), (4, 0) | 9. (3, -5), (-2, 0) |
| 10. (-3, -5), (6, 5) | 11. (8, 6), (-4, -3) | 12. (-5, 2), (-2, 5) |
| 13. (-3, 1), (4, 8) | 14. (1, -4), (-2, 5) | 15. (-2, -3), (-1, -6) |

Use the distance formula to decide whether the three points are vertices of a right triangle.

- | | |
|------------------------------|-------------------------------|
| 16. (1, 1), (4, 4), (4, 1) | 17. (0, 6), (4, 6), (4, 2) |
| 18. (-2, 6), (5, 3), (1, -2) | 19. (3, -4), (-2, -1), (4, 6) |

Boston Suburbs Use the map shown. Each side of each square is 4 kilometers. The points represent city locations.

20. Use the distance formula to estimate the distance between Peabody and Bedford.
21. Use the distance formula to estimate the distance between Bedford and Hingham.
22. Use the distance formula to estimate the distance between Sudbury and Hingham.



Practice B

For use with pages 730–735

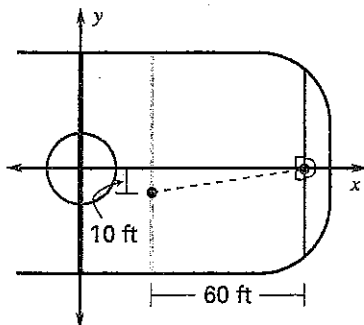
Find the distance between the two points. Round the result to the nearest hundredth if necessary.

- | | | |
|------------------------|-------------------------|------------------------|
| 1. $(-2, -1), (2, 2)$ | 2. $(3, -6), (8, 6)$ | 3. $(3, 4), (2, 6)$ |
| 4. $(5, -4), (-2, -3)$ | 5. $(-2, -6), (-3, 4)$ | 6. $(4, -1), (5, 8)$ |
| 7. $(8, -2), (-3, 4)$ | 8. $(-1, -4), (-2, -5)$ | 9. $(-2, 3), (1, 5)$ |
| 10. $(3, -3), (4, -4)$ | 11. $(0, -1), (2, 2)$ | 12. $(4, 3), (-5, 3)$ |
| 13. $(7, 5), (-3, 1)$ | 14. $(-4, 2), (3, -3)$ | 15. $(5, 10), (-5, 3)$ |

Use the distance formula to decide whether the three points are vertices of a right triangle.

- | | | |
|--------------------------------|--------------------------------|---------------------------------|
| 16. $(3, 5), (-2, 4), (2, 10)$ | 17. $(-4, 2), (-3, 2), (1, 6)$ | 18. $(-4, 1), (3, -2), (6, 5)$ |
| 19. $(4, -2), (3, 5), (-1, 0)$ | 20. $(1, 2), (-3, 6), (1, -5)$ | 21. $(-3, -2), (3, 4), (-8, 3)$ |

22. **Hockey** A hockey player made a goal from the blue line. When he took the shot, he was on the blue line 10 feet from the center of the rink and the puck crossed the goal line at the center. How far did the puck travel?



23. **Distance on a Map** Each square on the grid superimposed on the map represents 80 miles by 80 miles. Use the map to estimate the distance from Honolulu to Hilo.

