Name: _____

The Distance Formula

Formula Reference

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Where **d** is the distance between points (x_1, y_1) and (x_2, y_2).

Directions: Find the distance between the two points. Round the answer to the nearest hundredths decimal place.

1. (5, -3) and (-2, 2)

2. (6, 8) and (2, -6)

3. (-6, -5) and (1, -4)

4. (6, -1) and (-1, 2)

5. (-2, 8) and (-2, -2)

6. (5, -2) and (6, -6)

7. (-5, -8) and (-7, -6)

8. (8, -6) and (2, -8)

9. (6, -2) and (8, -1)

10. (0, 8) and (2, 0)

11. (-8, 5) and (-2, 3)

12. (-2, 4) and (-9, 6)

ANSWER KEY

1. (5, -3) and (-2, 2)
   8.60

2. (6, 8) and (2, -6)
   14.56

3. (-6, -5) and (1, -4)
   7.07

4. (6, -1) and (-1, 2)
   7.62

5. (-2, 8) and (-2, -2)
   10

6. (5, -2) and (6, -6)
   4.12

7. (-5, -8) and (-7, -6)
   2.83

8. (8, -6) and (2, -8)
   6.32

9. (6, -2) and (8, -1)
   2.24

10. (0, 8) and (2, 0)
    8.25

11. (-8, 5) and (-2, 3)
    6.32

12. (-2, 4) and (-9, 6)
    7.28