**The Distance Formula**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Pythagorean Theorem

1. Find the distance between the points (1,2) and (4,6) by using the Pythagorean Theorem.

Connecting the Pythagorean Theorem to the Distance Formula

1. What is the distance formula?
2. Find the distance between the points (1,2) and (4,6) by using the distance formula
3. Explain how the Distance Formula and the Pythagorean Theorem are related.

Examples of using the Distance Formula

1. Find the distance between the following points
   1. (3,6) and (-2, 5)
   2. (7,-9) and (-2,-1)

Independent Practice

1. Find the distance between the following points
   1. (3,5) and (6,7)
   2. (-4, 6) and (7,-1)
   3. (-5, -2) and (-3, 2)
   4. (-12, -9) and (-6, -3)