**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_**

**Coordinate Geometry**

**Distance/Length Formula**

**d =  or d = **

\*This formula can be used to find the *distance* between two points or the *length* of a line segment.

1. What is the distance between points  and ?
2. A line segment has endpoints  and . What is the length of the segment?
3. What is the length, to the *nearest tenth,* of the line segment joining the points  and ?
4. The coordinates of the endpoints of  are  and . Find the length of  in simplest radical form.
5. In circle *O*, a diameter has endpoints  and .

A. What is the *length* of the diameter?

B. If the question asked for the length of the radius, what would you do to obtain your

answer? Explain your reasoning in complete, coherent sentences.