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

**Algebra Proofs Homework**

Distance Formula:  Midpoint: 

1. A circle has a diameter with endpoints (-2, 6) and (4, 0). Find the center and radius of the circle.

1. Point C is the **midpoint** between points A and B. If point C is at (-4, 10) and Point A is (4, 8), what is the Point B?

3. Circle C has a center of (–2, 3) and a radius of 4. Does point (–4, 6) lie on circle C?