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

**Similar Circles & Equations of Circles Worksheet**

1) **Graph the following circle:**

1. **(x - 3)2 + (y + 1)2 = 4**
2. **(x – 2)2 + (y – 5)2 = 9**
3. **(y + 4)2 + (x + 2)2 = 16**

**2) For each circle: Identify its center and radius.**

a. **(x + 3)2 + (y – 1)2 = 4** b. **x2 + (y – 3)2 = 18** c. **(y + 8)2 + (x + 2)2 = 72**

3) **Write the equation of the following circles:**





