STANDARD FORM

(x – \_\_\_\_)2 + (y – \_\_\_)2 = \_\_\_2

\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(\_\_\_\_, \_\_\_\_\_) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the circle

**Identify the center and the radius**

EX1: (x – 2)2 + (y – 4)2 = 81 EX2: (x + 7)2 + (y – 3)2 = 9

Center: \_\_\_\_\_\_\_\_\_\_\_\_ Center: \_\_\_\_\_\_\_\_\_\_\_

Radius: \_\_\_\_\_\_\_\_\_\_\_\_ Radius: \_\_\_\_\_\_\_\_\_\_\_

EX3: (x + 8)2 + (y + 6)2 = 51 Ex 4: x2 + (y – 3)2 = 27

Center: \_\_\_\_\_\_\_\_\_\_\_ Center: \_\_\_\_\_\_\_\_\_\_\_

Radius: \_\_\_\_\_\_\_\_\_\_\_ Radius: \_\_\_\_\_\_\_\_\_\_\_

**Use the information to write the equation of each circle**

EX1: Center: ( -12, -5) EX2: Center ( -15, 10)

 Radius: $\sqrt{8}$ Radius: 3

EX3: Center: (8, 13) EX4: Center ( -10, -12)

 Radius: 7 Radius:$3\sqrt{2}$

 **Identify the center and the radius. Then graph the circle.**

EX1: EX2:

 