Completing the Square – Practice – Honors Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rewrite each equation and identify the center of the circle and the radius length.

1. $x^{2}+4x+y^{2}=36$ Center:

 Radius:

2. $x^{2}-10x+y^{2}+8y=23$ Center:

 Radius:

 Verify if (5, 4) is on the circle:

3. $x^{2}+y^{2}+2x-6y=-7$ Center:

 Radius:

 Verify if (-3, -6) is on the circle:

4. $y^{2}+x^{2}+6x-8y=0$ Center:

 Radius:

 Verify if (-7, 1) is on the circle:

5. $x^{2}+y^{2}+6x-14y=12$ Center:

 Radius:

6. $x^{2}+y^{2}-8x-4y+18=0$ Center:

 Radius: