

Homework Key

Circles

1. $x^2 + y^2 = 16$ *Center = (0,0) & Radius = 4*

2. $x^2 + y^2 + 6x - 8y - 39 = 0$ *Center = (-3,4) & Radius = 8*

3. $x^2 + y^2 - 8x + 12y - 8 = 0$ *Center = (4,-6) & Radius = $2\sqrt{15}$ or $\sqrt{60}$*

4. $x^2 + y^2 - 12x - 2y - 12 = 0$ *Center = (6,1) & Radius = 7*

5. $x^2 + y^2 + 7x + 13y - 9 = 0$ *Center = (-3.5,-6.5) & Radius = $\sqrt{63.5}$*

6. *Center is on the y axis, Points (1,4) & (-3,2)* *Center = (0,1) & Radius = $\sqrt{10}$*

7. *Points (3,1) & (0,0) & (8,4)* *Center = (-5,20) & Radius = $\sqrt{425}$ or 20.615*