AA2 Circles Wksht #1   Name _____

Find the standard equation of a circle with the given endpoints of the diameter.

1. $(3,\ 4)$ $(5,\ 6)$ 2. $(-2,\ 6)$ $(4,\ 2)$

3. $(-2,\ 7)$ $(-8,\ 5)$ 4. $(-3,\ 6)$ $(4,\ 8)$

Find the center and radius of each circle by completing the square.

5. $4x^2 + 4y^2 - 16x - 24y + 36 = 0$ 6. $9x^2 + 9y^2 + 6x + 18y + 9 = 0$

7. $16x^2 + 16y^2 - 32x + 8y = 0$ 8. $3x^2 + 3y^2 - 6x + 24y + 24 = 0$