

Section 17.2

Name _____

Circle $(x - h)^2 + (y - k)^2 = r^2$ where (h,k) is the center and r is the radius

Graph the following.

1. $(x - 1)^2 + (y + 1)^2 = 4$

2. $(x + 2)^2 + (y - 3)^2 = 9$

Write the equation of the circle in standard form

3. $x^2 + y^2 - 10x + 2y + 22 = 0$

4. $x^2 + y^2 - 6x + 8y + 16 = 0$

5. Find the equation of the that passes through $(1, 4)$ and has a center at $(5, 2)$.

6. Find the equation of the circle for which the diameter has endpoints $(4, 5)$ and $(5, -6)$