

## Q4HW1 - All work on looseleaf.

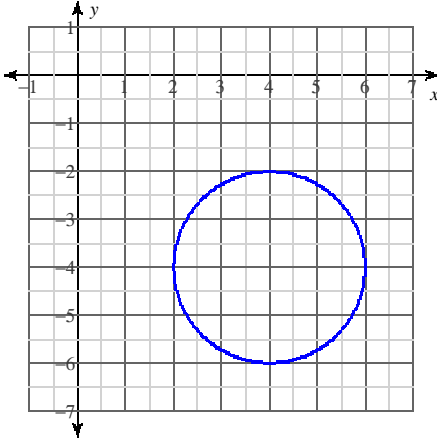
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**Use the information provided to write the standard form equation of each circle.**

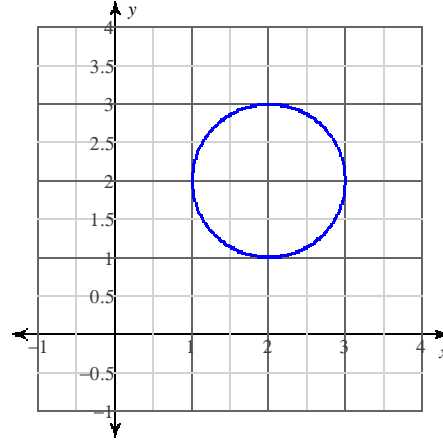
- 1) Center: (1, 16)  
Radius: 2

- 2) Center: (-10, 8)  
Radius:  $\sqrt{73}$

3)



4)



- 5) Ends of a diameter: (-3, 9) and (-15, 7)

- 6) Ends of a diameter: (10, 14) and (-4, 10)

- 7) Ends of a diameter: (14, 10) and (10, 6)

- 8) Ends of a diameter: (-11, 16) and (-13, 18)

**Use the information provided to write the general conic form equation of each circle.**

9)  $(x + 2)^2 + (y + 4)^2 = 146$

10)  $(x + 9)^2 + (y - 7)^2 = 49$

**Use the information provided to write the standard form equation of each circle.**

11)  $x^2 + y^2 + 24x - 16y + 186 = 0$

12)  $x^2 + y^2 - 2x + 16y + 61 = 0$

13)  $x^2 + y^2 - 6x + 4y - 93 = 0$

14)  $x^2 + y^2 + 14x - 20y + 92 = 0$