

Practice for Q4OBQ1

 All work on looseleaf.

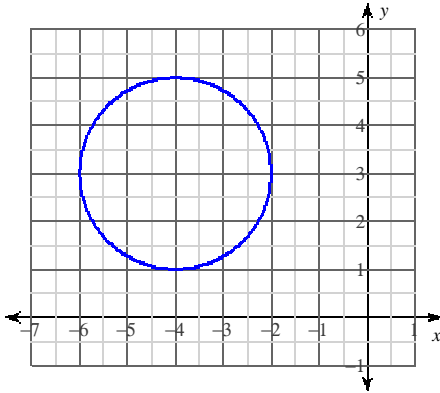
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Use the information provided to write the standard form equation of each circle.

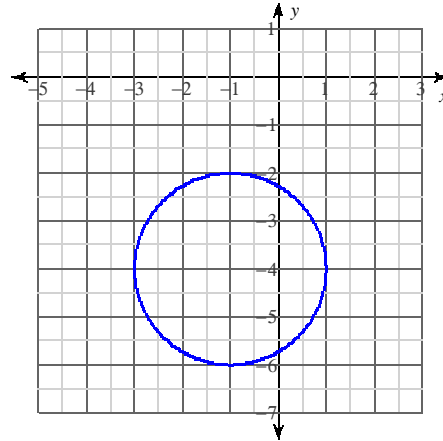
1) Center: $(-2, 14)$
Radius: 4

2) Center: $(-14, 7)$
Radius: 4

3)



4)



5) Ends of a diameter: $(4, 6)$ and $(14, -12)$

6) Ends of a diameter: $(-6, -14)$ and $(-8, -8)$

7) Ends of a diameter: $(13, -3)$ and $(-7, 15)$

8) Ends of a diameter: $(-6, 7)$ and $(18, -3)$

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

9) $(x - 16)^2 + (y - 13)^2 = 4$

10) $(x - 7)^2 + (y + 8)^2 = 25$

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

11) $x^2 + y^2 + 6x - 8y - 75 = 0$

12) $x^2 + y^2 + 24x - 32y + 396 = 0$

13) $x^2 + y^2 - 24x + 10y + 153 = 0$

14) $x^2 + y^2 - 4x - 12y - 24 = 0$

Answers to Practice for Q4HW1 - All work on looseleaf. (ID: 1)

1) $(x + 2)^2 + (y - 14)^2 = 16$

2) $(x + 14)^2 + (y - 7)^2 = 16$

3) $(x + 4)^2 + (y - 3)^2 = 4$

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

5) $(x - 9)^2 + (y + 3)^2 = 106$

6) $(x + 7)^2 + (y + 11)^2 = 10$

7) $(x - 3)^2 + (y - 6)^2 = 181$

8) $(x - 6)^2 + (y - 2)^2 = 169$

9) $x^2 + y^2 - 32x - 26y + 421 = 0$

10) $x^2 + y^2 - 14x + 16y + 88 = 0$

11) $(x + 3)^2 + (y - 4)^2 = 100$

12) $(x + 12)^2 + (y - 16)^2 = 4$

13) $(x - 12)^2 + (y + 5)^2 = 16$

14) $(x - 2)^2 + (y - 6)^2 = 64$