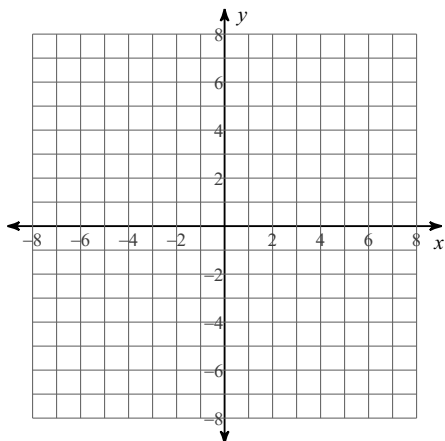


Worksheet 13 - Lesson 42

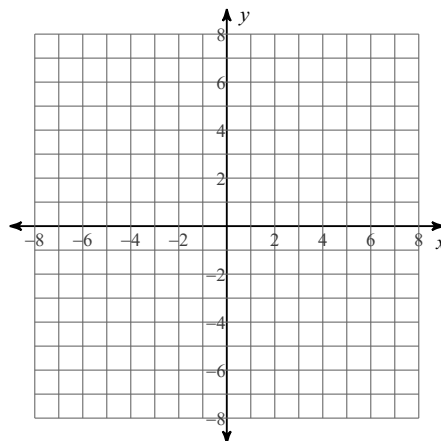
Date _____ Period _____

Identify the center and radius of each. Then sketch the graph.

1) $(x - 1)^2 + (y - 2)^2 = 25$



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

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

3) Center: $(7, -6)$
Radius: 9

4) Center: $(9, 8)$
Radius: 7

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

5) $(x - 12)^2 + (y - 7)^2 = 36$

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

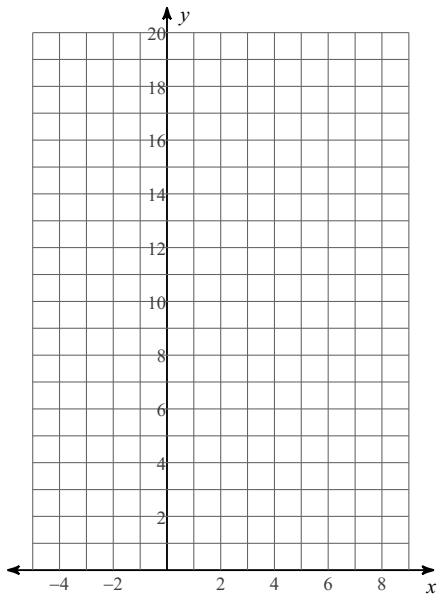
Use the information provided to write the standard form equation of each circle.

7) $x^2 + y^2 - 32x + 16y + 319 = 0$

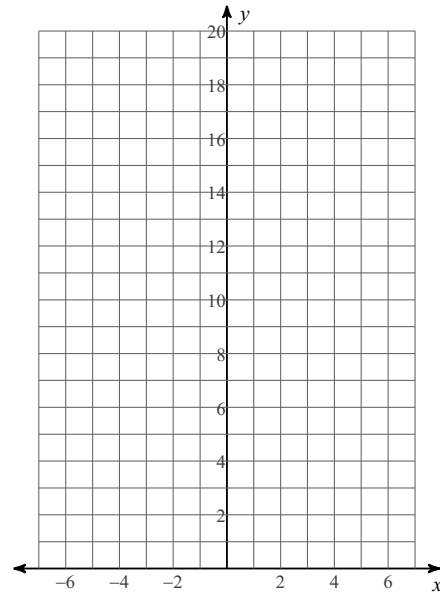
8) $x^2 + y^2 + 30x - 28y + 413 = 0$

Sketch the graph of each function.

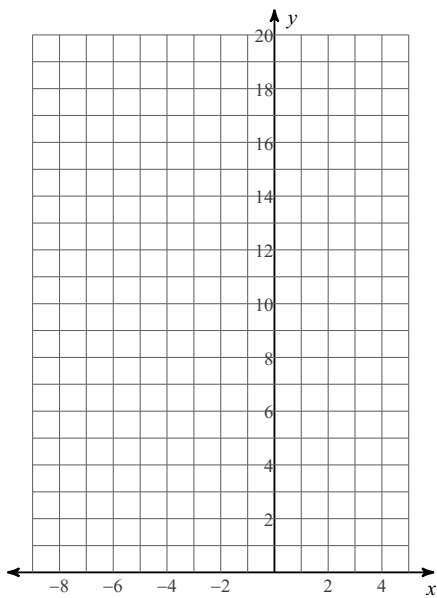
9) $f(x) = \left(\frac{1}{3}\right)^{x-2}$



10) $f(x) = 2^x + 2$



11) $f(x) = \left(\frac{1}{3}\right)^{x+2} + 1$



12) $f(x) = 3^{x-2} - 1$

