Geometry Name_____

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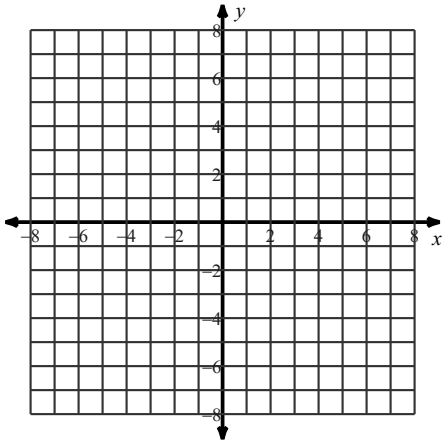
7.4 - ANOTHER QUIZ REVIEW

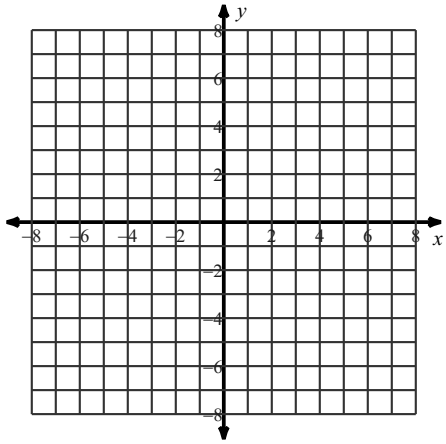
Date_____

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

1) $(x-3)^2+(y+4)^2=9$



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



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

3) Center: $(9, 1)$
Radius: 2

4) Center: $(8, 13)$
Radius: 3

5) Center: $(-4, 10)$
Area: 64π

6) Center: $(4, 7)$
Area: 36π

7) Center: $(3, 1)$
Circumference: 20π

8) Center: $(-5, -1)$
Circumference: 10π

Convert from Standard Form to General Form.

9) $(x+4)^2+(y-3)^2=25$

10) $(x-14)^2+(y+13)^2=16$

11) $(x-6)^2+(y+4)^2=36$

12) $(x+16)^2+(y+6)^2=1$

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Convert from General Form to Standard Form

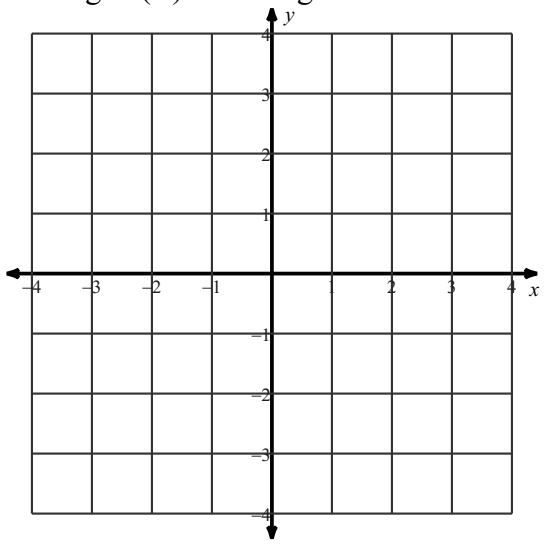
13) $x^2 + y^2 - 32x + 16y + 311 = 0$

14) $x^2 + y^2 - 8y - 20 = 0$

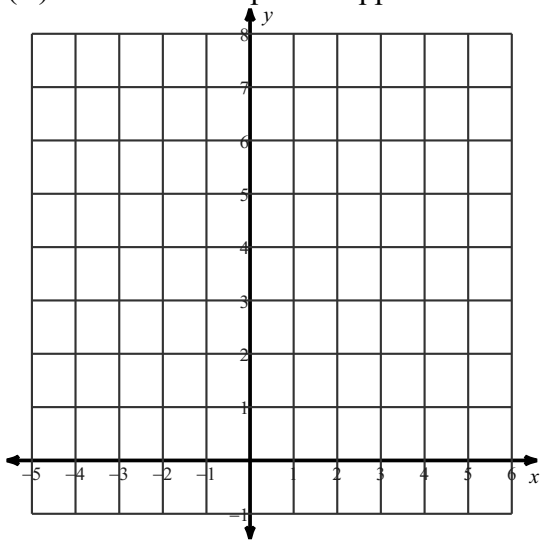
15) $x^2 + y^2 + 28x - 32y + 443 = 0$

16) $x^2 + y^2 + 26x + 12y + 189 = 0$

17) Plot A(-1, 3), B(3, 1), C(1, -2), and D(-3, 0).
(A) A rectangle has TWO PAIRS OF OPPOSITE SIDES CONGRUENT. Prove that ABCD is a rectangle. (B) A rectangle has FOUR RIGHT ANGLES. Prove that ABCD is NOT a rectangle.



18) Plot A(-5, 3), B(-3, 7), C(4, 7), and D(6, 3).
(A) Prove that ABCD is a trapezoid by showing it has one pair of PARALLEL sides.
(B) Prove that one pair of opposite sides are CONGRUENT.



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