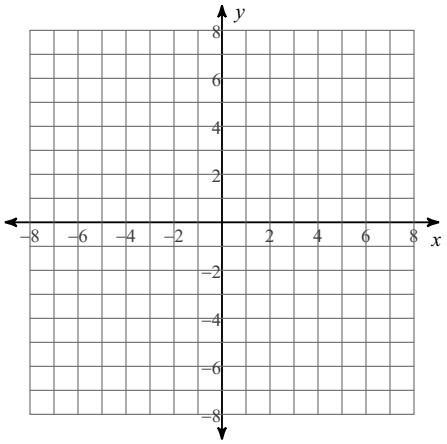
Math-2A Name_____ ID: 1

SM2-A HW #10-1 (circles)

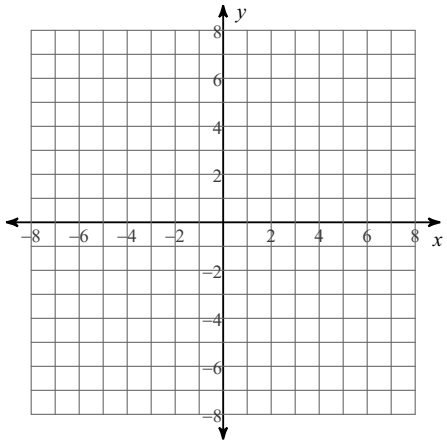
Period____

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

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



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



Identify the center and radius of each.

3) $(x-1)^2 + (y-9)^2 = 5$

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

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

6) $(x+9)^2 + (y+1)^2 = 81$

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

7) Center: $(-2, -12)$
Radius: 4

8) Center: $(-14, 14)$
Radius: 2

9) Center: $(-12, 3)$
Radius: 3

10) Center: $(0, 9)$
Radius: $\sqrt{95}$

11) Using calculations, show that the point (6, -5) is on the circle:
$(x-4)^2 + (y+1)^2 = 20$

12) Using calculations, show that the point (6, -5) is on the circle:
$(x+6)^2 + (y-5)^2 = 40$

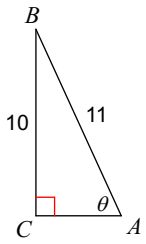
Simplify.

13) $\sqrt[3]{375x^5y^6}$

14) $3\sqrt{3}\left(4\sqrt{3}+4\right)$

Find the measure of each angle indicated. Round to the nearest tenth.

15)



Find the measure of each side indicated. Round to the nearest tenth.

16)