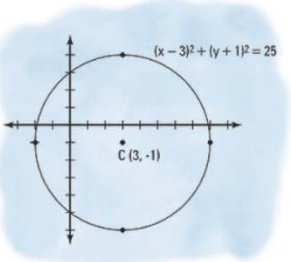
Name : Class :

Graphing circle

A circle graph is the intersection graph of a set of chords of a circle.



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

1)
Center: $(11, 8)$
Radius: 4
$(x-11)^2+(y-8)^2=16$

2)
Center: $(-13, -5)$
Radius: 3
$(x+13)^2+(y+5)^2=9$

3) Center: $(2, -14)$
Circumference: 4π
$(x-2)^2+(y+14)^2=4$

4) Center: $(-8, -2)$
Circumference: 14π
$(x+8)^2+(y+2)^2=49$

5) Center: $(4, -5)$
Area: 172π
$(x-4)^2+(y+5)^2=172$

6) Center: $(16, 2)$
Area: 4π
$(x-16)^2+(y-2)^2=4$

7) Center: $(-9, -8)$
Point on Circle: $(-9, -2)$
$(x+9)^2+(y+8)^2=36$

8) Center: $(-12, -3)$
Point on Circle: $(-9, -7)$
$(x+12)^2+(y+3)^2=25$

9) Center: $(16, -12)$
Tangent to $x=14$
$(x-16)^2+(y+12)^2=4$

10) Center: $(13, -2)$
Tangent to $x=9$
$(x-13)^2+(y+2)^2=16$