Chapter 8 Review

$(x-h)^2+(y-k)^2=r^2$

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

1) Center: $(-5, -6)$ (h, k)
Radius: 6

$(x+5)^2+(y+6)^2=6^2$

36

2) Center: $(7, 15)$
Radius: 4

3) Center: $(10, -4)$
Radius: $\sqrt{10}$

4) Center: $(-9, -11)$
Radius: 4

5) $x^2+y^2-20x+22y+203=0$ -203

$(x^2-20x+100)+(y^2+22y+121)=-203+100+121$

$(x-10)^2+(y+11)^2=(\sqrt{18})^2$

$(x-10)^2+(y+11)^2=18$

6) $x^2+y^2-10x+4y-5=0$

7) $x^2+y^2-26x+22y+281=0$

8) $x^2+y^2+4x+12y+4=0$

9) Center: $(8, 11)$
Radius: 4

10) Center: $(-10, 16)$
Area: 9π

11) Center: $(-5, 11)$
Circumference: 10π

12) Center: $(-7, 1)$
Point on Circle: $(0, 10)$

Chapter 8 Review

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

1) Center: $(-5, -6)$
Radius: 6

$(x+5)^2+(y+6)^2=36$

2) Center: $(7, 15)$
Radius: 4

$(x-7)^2+(y-15)^2=16$

3) Center: $(10, -4)$
Radius: $\sqrt{10}$

$(x-10)^2+(y+4)^2=10$

4) Center: $(-9, -11)$
Radius: 4

$(x+9)^2+(y+11)^2=16$

5) $x^2+y^2-20x+22y+203=0$

$(x-10)^2+(y+11)^2=18$

6) $x^2+y^2-10x+4y-5=0$

$(x-5)^2+(y+2)^2=34$

7) $x^2+y^2-26x+22y+281=0$

$(x-13)^2+(y+11)^2=9$

8) $x^2+y^2+4x+12y+4=0$

$(x+2)^2+(y+6)^2=36$

9) Center: $(8, 11)$
Radius: 4

$(x-8)^2+(y-11)^2=16$

10) Center: $(-10, 16)$
Area: 9π

$(x+10)^2+(y-16)^2=9$

11) Center: $(-5, 11)$
Circumference: 10π

$(x+5)^2+(y-11)^2=25$

12) Center: $(-7, 1)$
Point on Circle: $(0, 10)$

$(x+7)^2+(y-1)^2=130$