Name:_____ Date:_____

PC: Circle Practice

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

1) $8x + x^2 - 2y = 64 - y^2$

2) $137 + 6y = -y^2 - x^2 - 24x$

3) $x^2 + y^2 + 14x - 12y + 4 = 0$

4) $y^2 + 2x + x^2 = 24y - 120$

5) $x^2 + 2x + y^2 = 55 + 10y$

6) $8x + 32y + y^2 = -263 - x^2$

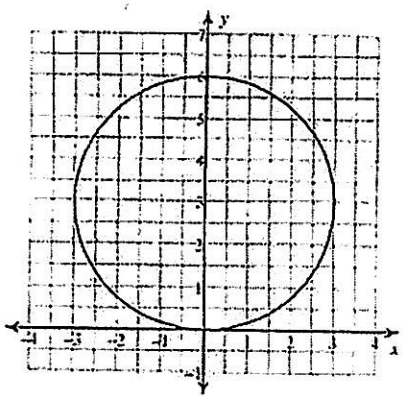
7) Center: $(-11, -8)$
Radius: 4

8) Center: $(-6, -15)$
Radius: $\sqrt{5}$

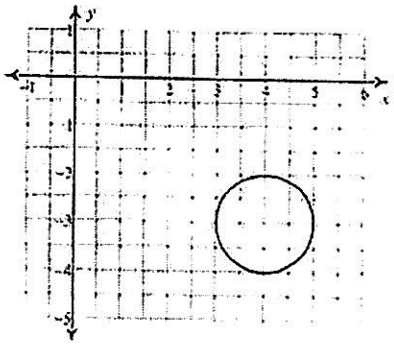
9) Center: $(2, -5)$
Point on Circle: $(-7, -1)$

10) Center: $(14, 17)$
Point on Circle: $(15, 17)$

11)



12)



13) Ends of a diameter: $(-17, -9)$ and $(-19, -9)$

14) Ends of a diameter: $(-3, 11)$ and $(3, -13)$

15) Center: $(-15, 3\sqrt{7})$
Area: 2π

16) Center: $(-11, -14)$
Area: 16π

17) Center: $(-5, 12)$
Circumference: 8π

18) Center: $(15, 14)$
Circumference: $2\pi\sqrt{15}$