Name : _____ Score : _____

Teacher : _____ Date : _____

Writing Circle Equations

Use the given information to write the standard form equation of the circle.

1) $(x + 4)^2 + (y - 3)^2 = 100$
Translated: 4 left and 2 up

2) $y^2 - 18y - 8x = -x^2 - 81$

3) Center: (-7,-2)
Circumference: 6π

4) Three Points on the Circle Are:
(-15,-6), (-5,4), and (5,-6)

5) Ends of a Diameter:
(-10,4) and (12,4)

6) $x^2 + y^2 - 8x + 34y + 161 = 0$
Translated: 1 left and 5 up

7) Center: (-11,-3)
Radius: 4

8) Center: (12,4)
Point on the Circle: (15,4)

9) Center: (2,12)
Tangent to: x = -9

10) Center: (1,-10)
Area: 144π

Name : _____ Score : _____

Teacher : _____ Date : _____

Writing Circle Equations

Use the given information to write the standard form equation of the circle.

1) $(x + 4)^2 + (y - 3)^2 = 100$

Translated: 4 left and 2 up

$(x + 8)^2 + (y - 5)^2 = 100$

2) $y^2 - 18y - 8x = -x^2 - 81$

$(x - 4)^2 + (y - 9)^2 = 16$

3) Center: (-7,-2)

Circumference: 6π

$(x + 7)^2 + (y + 2)^2 = 9$

4) Three Points on the Circle Are:

(-15,-6), (-5,4), and (5,-6)

$(x + 5)^2 + (y + 6)^2 = 100$

5) Ends of a Diameter:

(-10,4) and (12,4)

$(x - 1)^2 + (y - 4)^2 = 121$

6) $x^2 + y^2 - 8x + 34y + 161 = 0$

Translated: 1 left and 5 up

$(x - 3)^2 + (y + 12)^2 = 144$

7) Center: (-11,-3)

Radius: 4

$(x + 11)^2 + (y + 3)^2 = 16$

8) Center: (12,4)

Point on the Circle: (15,4)

$(x - 12)^2 + (y - 4)^2 = 9$

9) Center: (2,12)

Tangent to: x = -9

$(x - 2)^2 + (y - 12)^2 = 121$

10) Center: (1,-10)

Area: 144π

$(x - 1)^2 + (y + 10)^2 = 144$