

Name : _____

Score : _____

Teacher : _____

Date : _____

Writing Circle Equations

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

- 1) Center: (6,-5)

Tangent to: $x = -6$

- 6) Center: (-8,-3)

Radius: 4

2) $x^2 + y^2 + 22x + 2y + 58 = 0$

Translated: 4 right and 5 down

- 7) Three Points on the Circle Are:

(-10,-6), (-9,-5), and (-8,-6)

- 3) Center: (-10,-5)

Circumference: 8π

8) $(x + 5)^2 + (y + 6)^2 = 4$

Translated: 2 right and 3 down

- 4) Center: (3,-1)

Area: 16π

- 9) Ends of a Diameter: (-2,4) and (22,4)

5) $x^2 - y^2 + 2x + 22y - 22$

- 10) Center: (9,-5)

Point on the Circle: (9,-11)



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Writing Circle Equations

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

- 1) Center: (6,-5)

Tangent to: $x = -6$

$$(x - 6)^2 + (y + 5)^2 = 144$$

- 6) Center: (-8,-3)

Radius: 4

$$(x + 8)^2 + (y + 3)^2 = 16$$

- 2) $x^2 + y^2 + 22x + 2y + 58 = 0$

Translated: 4 right and 5 down

$$(x + 7)^2 + (y + 6)^2 = 64$$

- 7) Three Points on the Circle Are:

(-10,-6), (-9,-5), and (-8,-6)

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

- 3) Center: (-10,-5)

Circumference: 8π

$$(x + 10)^2 + (y + 5)^2 = 16$$

- 8) $(x + 5)^2 + (y + 6)^2 = 4$

Translated: 2 right and 3 down

$$(x + 3)^2 + (y + 9)^2 = 4$$

- 4) Center: (3,-1)

Area: 16π

$$(x - 3)^2 + (y + 1)^2 = 16$$

- 9) Ends of a Diameter: (-2,4) and (22,4)

$$(x - 10)^2 + (y - 4)^2 = 144$$

- 5) $x^2 - y^2 + 2x + 22y - 22$

$$(x - 1)^2 + (y - 11)^2 = 100$$

- 10) Center: (9,-5)

Point on the Circle: (9,-11)

$$(x - 9)^2 + (y + 5)^2 = 36$$

