Equations of Circles · 1

Find the center of the circle $(x - 3)^2 + (y + 1)^2 = 36$. Write it as (h, k).

Equations of Circles · 2

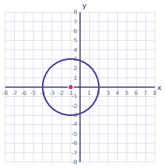
Write $x^2 + y^2 - 2x - 10y + 22 = 0$ in standard form by completing the square.

Equations of Circles · 3

Write the equation of the circle with center (6, 2) and radius 5.

Equations of Circles · 4

Write the equation of the circle shown.



Equations of Circles · 5

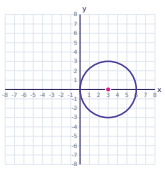
Find the radius of the circle $x^2 + y^2 + 6x - 4y - 12 = 0$.

Equations of Circles · 6

Write $x^2 + y^2 - 8x + 12y + 3 = 0$ in standard form by completing the square.

Equations of Circles · 7

Write the equation of the circle shown.



Equations of Circles · 8

Write the equation of the circle with center (-4, 5) and radius 8.

Equations of Circles · 2

ANSWER

$$(x - 1)^2 + (y - 5)^2 = 4$$

Equations of Circles · 1

ANSWER

$$(3, -1)$$

Equations of Circles · 4

ANSWER

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

Equations of Circles · 3

ANSWER

$$(x - 6)^2 + (y - 2)^2 = 25$$

Equations of Circles · 6

ANSWER

$$(x - 4)^2 + (y + 6)^2 = 49$$

Equations of Circles · 5

ANSWER

$$5$$

Equations of Circles · 8

ANSWER

$$(x + 4)^2 + (y - 5)^2 = 64$$

Equations of Circles · 7

ANSWER

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

Equations of Circles · 9

Find the center of the circle $(x + 2)^2 + (y + 5)^2 = 49$. Write it as (h, k).

Equations of Circles · 10

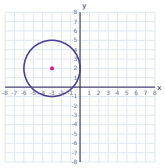
Write $x^2 + y^2 - 2x + 12y + 33 = 0$ in standard form by completing the square.

Equations of Circles · 11

Write the equation of the circle with center (5, -9) and radius 4.

Equations of Circles · 12

Write the equation of the circle shown.



Equations of Circles · 13

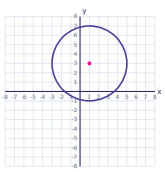
Find the radius of the circle $x^2 + y^2 - 14x + 6y - 42 = 0$.

Equations of Circles · 14

Write $x^2 + y^2 - 16x - 18y + 96 = 0$ in standard form by completing the square.

Equations of Circles · 15

Write the equation of the circle shown.



Equations of Circles · 16

Write the equation of the circle with center (2, 9) and radius 4.

Equations of Circles · 10

ANSWER

$$(x - 1)^2 + (y + 6)^2 = 4$$

Equations of Circles · 9

ANSWER

$$(-2, -5)$$

Equations of Circles · 12

ANSWER

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

Equations of Circles · 11

ANSWER

$$(x - 5)^2 + (y + 9)^2 = 16$$

Equations of Circles · 14

ANSWER

$$(x - 8)^2 + (y - 9)^2 = 49$$

Equations of Circles · 13

ANSWER

$$10$$

Equations of Circles · 16

ANSWER

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

Equations of Circles · 15

ANSWER

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

Equations of Circles · 17

Find the center of the circle $(x + 7)^2 + (y + 3)^2 = 49$. Write it as (h, k).

Equations of Circles · 18

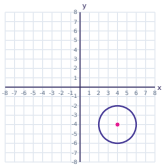
Write $x^2 + y^2 + 16x + 14y + 109 = 0$ in standard form by completing the square.

Equations of Circles · 19

Write the equation of the circle with center (-9, 0) and radius 9.

Equations of Circles · 20

Write the equation of the circle shown.



Equations of Circles · 21

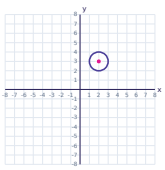
Find the radius of the circle $x^2 + y^2 + 12x - 8y - 48 = 0$.

Equations of Circles · 22

Write $x^2 + y^2 + 16x + 2y + 16 = 0$ in standard form by completing the square.

Equations of Circles · 23

Write the equation of the circle shown.



Equations of Circles · 24

Write the equation of the circle with center (1, 4) and radius 5.

Equations of Circles · 18

ANSWER

$$(x + 8)^2 + (y + 7)^2 = 4$$

Equations of Circles · 17

ANSWER

$$(-7, -3)$$

Equations of Circles · 20

ANSWER

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

Equations of Circles · 19

ANSWER

$$(x + 9)^2 + y^2 = 81$$

Equations of Circles · 22

ANSWER

$$(x + 8)^2 + (y + 1)^2 = 49$$

Equations of Circles · 21

ANSWER

$$10$$

Equations of Circles · 24

ANSWER

$$(x - 1)^2 + (y - 4)^2 = 25$$

Equations of Circles · 23

ANSWER

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