Equations of Circles · 1

Find the center of the circle $x^2 + y^2 + 4x - 5 = 0$.

Equations of Circles · 2

Find the radius of the circle $x^2 + y^2 - 2x - 6y + 1 = 0$.

Equations of Circles · 3

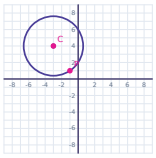
Find the radius of the circle $(x - 4)^2 + (y - 5)^2 = 67$.

Equations of Circles · 4

Find the center of the circle $x^2 + y^2 - 4x - 77 = 0$.

Equations of Circles · 5

A circle has center (-3, 4) and passes through the point (-1, 1). Write its equation.



Equations of Circles · 6

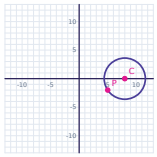
Find the radius of the circle $x^2 + y^2 - 4x + 2y + 4 = 0$.

Equations of Circles · 7

Find the center of the circle $x^2 + y^2 - 8x - 12y - 29 = 0$.

Equations of Circles · 8

A circle has center (8, 0) and passes through the point (5, -2). Write its equation.



Equations of Circles · 2

ANSWER

3

Equations of Circles · 1

ANSWER

(-2, 0)

Equations of Circles · 4

ANSWER

(2, 0)

Equations of Circles · 3

ANSWER

√67

Equations of Circles · 6

ANSWER

1

Equations of Circles · 5

ANSWER

$(x + 3)^2 + (y - 4)^2 = 13$

Equations of Circles · 8

ANSWER

$(x - 8)^2 + y^2 = 13$

Equations of Circles · 7

ANSWER

(4, 6)

Equations of Circles · 9

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

Equations of Circles · 10

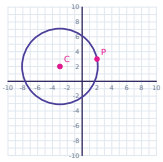
Find the radius of the circle $(x - 4)^2 + (y - 4)^2 = 59$.

Equations of Circles · 11

Find the center of the circle $x^2 + y^2 + 2x - 2y - 14 = 0$.

Equations of Circles · 12

A circle has center (-3, 2) and passes through the point (2, 3). Write its equation.



Equations of Circles · 13

Find the radius of the circle $x^2 + y^2 + 8x - 2y - 32 = 0$.

Equations of Circles · 14

Find the center of the circle $x^2 + y^2 + 12y - 28 = 0$.

Equations of Circles · 15

Find the radius of the circle $x^2 + y^2 - 4x + 8y - 29 = 0$.

Equations of Circles · 16

Find the radius of the circle $(x - 6)^2 + (y + 8)^2 = 73$.

Equations of Circles · 10

ANSWER

$\sqrt{59}$

Equations of Circles · 9

ANSWER

3

Equations of Circles · 12

ANSWER

$(x + 3)^2 + (y - 2)^2 = 26$

Equations of Circles · 11

ANSWER

(-1, 1)

Equations of Circles · 14

ANSWER

(0, -6)

Equations of Circles · 13

ANSWER

7

Equations of Circles · 16

ANSWER

$\sqrt{73}$

Equations of Circles · 15

ANSWER

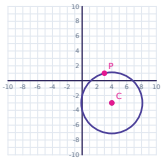
7

Equations of Circles · 17

Find the center of the circle $x^2 + y^2 + 8x - 12y + 43 = 0$.

Equations of Circles · 18

A circle has center (4, -3) and passes through the point (3, 1). Write its equation.



Equations of Circles · 19

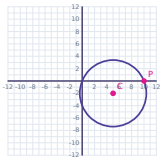
Find the radius of the circle $x^2 + y^2 + 8y + 15 = 0$.

Equations of Circles · 20

Find the center of the circle $x^2 + y^2 - 12x - 6y + 41 = 0$.

Equations of Circles · 21

A circle has center (5, -2) and passes through the point (10, 0). Write its equation.



Equations of Circles · 22

Find the radius of the circle $x^2 + y^2 - 12x + 8y + 27 = 0$.

Equations of Circles · 23

Find the radius of the circle $(x + 3)^2 + (y + 5)^2 = 34$.

Equations of Circles · 24

Find the center of the circle $x^2 + y^2 - 12x - 8y + 16 = 0$.

Equations of Circles · 18

ANSWER

$$(x - 4)^2 + (y + 3)^2 = 17$$

Equations of Circles · 17

ANSWER

$$(-4, 6)$$

Equations of Circles · 20

ANSWER

$$(6, 3)$$

Equations of Circles · 19

ANSWER

$$1$$

Equations of Circles · 22

ANSWER

$$5$$

Equations of Circles · 21

ANSWER

$$(x - 5)^2 + (y + 2)^2 = 29$$

Equations of Circles · 24

ANSWER

$$(6, 4)$$

Equations of Circles · 23

ANSWER

$$\sqrt{34}$$