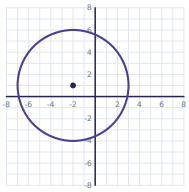
Task card 1 Equations of Circles

Write the equation of the circle with center (-2, 1) and radius 5.

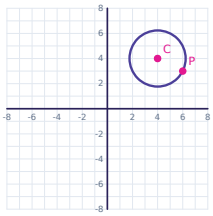


Task card 2 Equations of Circles

Find the center of the circle $(x - 4)^2 + (y - 4)^2 = 9$.

Task card 3 Equations of Circles

A circle has center (4, 4) and passes through the point (6, 3). Write its equation.

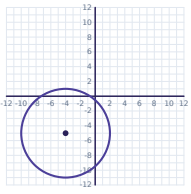


Task card 4 Equations of Circles

Find the radius of the circle $(x + 3)^2 + (y + 7)^2 = 1$.

Task card 5 Equations of Circles

Write the equation of the circle with center (-4, -5) and radius 6.

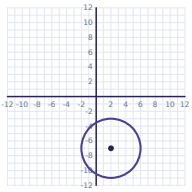


Task card 6 Equations of Circles

Find the center of the circle $(x + 3)^2 + (y - 5)^2 = 36$.

Task card 7 Equations of Circles

Write the equation of the circle with center (2, -7) and radius 4.

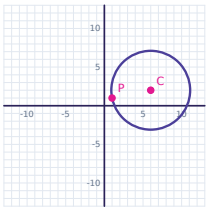


Task card 8 Equations of Circles

Find the center of the circle $(x - 4)^2 + (y + 7)^2 = 9$.

Task card 9 Equations of Circles

A circle has center (6, 2) and passes through the point (1, 1). Write its equation.

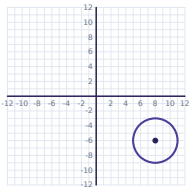


Task card 10 Equations of Circles

Find the radius of the circle $(x - 8)^2 + (y + 7)^2 = 36$.

Task card 11 Equations of Circles

Write the equation of the circle with center (8, -6) and radius 3.

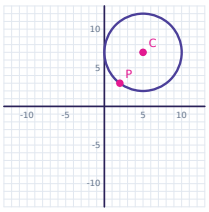


Task card 12 Equations of Circles

Find the center of the circle $(x - 7)^2 + (y + 1)^2 = 16$.

Task card 13 Equations of Circles

A circle has center (5, 7) and passes through the point (2, 3). Write its equation.

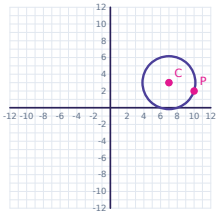


Task card 14 Equations of Circles

Find the center of the circle $x^2 + y^2 - 6x - 10y + 33 = 0$.

Task card 15 Equations of Circles

A circle has center (7, 3) and passes through the point (10, 2). Write its equation.



Task card 16 Equations of Circles

Find the radius of the circle $x^2 + y^2 + 4x - 2y + 1 = 0$.

Task card 17 Equations of Circles

Find the radius of the circle $(x + 3)^2 + (y + 4)^2 = 30$.

Task card 18 Equations of Circles

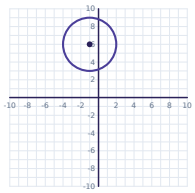
Find the center of the circle $x^2 + y^2 - 12x - 4y - 41 = 0$.

Task card 19 Equations of Circles

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

Task card 20 Equations of Circles

Write the equation of the circle with center (-1, 6) and radius 3.

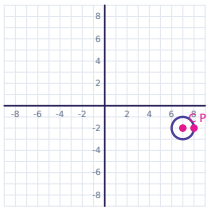


Task card 21 Equations of Circles

Find the center of the circle $(x + 7)^2 + (y - 1)^2 = 25$.

Task card 22 Equations of Circles

A circle has center (7, -2) and passes through the point (8, -2). Write its equation.

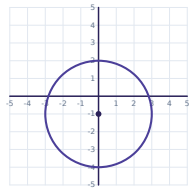


Task card 23 Equations of Circles

Find the radius of the circle $(x + 2)^2 + (y - 3)^2 = 1$.

Task card 24 Equations of Circles

Write the equation of the circle with center (0, -1) and radius 3.



Equations of Circles Task Cards

Recording sheet · Grade 10 · Write equations in standard form (x - h)^2 + (y - k)^2 = r^2. Write centers as (h, k). Use simplest radical form for radii that are not whole numbers.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Equations of Circles Task Cards: Answer Key

Grade 10 · Medium

The answers online

1. $(x + 2)^2 + (y - 1)^2 = 25$	**2.** (4, 4)	**3.** $(x - 4)^2 + (y - 4)^2 = 5$
4. 1	**5.** $(x + 4)^2 + (y + 5)^2 = 36$	**6.** (-3, 5)
7. $(x - 2)^2 + (y + 7)^2 = 16$	**8.** (4, -7)	**9.** $(x - 6)^2 + (y - 2)^2 = 26$
10. 6	**11.** $(x - 8)^2 + (y + 6)^2 = 9$	**12.** (7, -1)
13. $(x - 5)^2 + (y - 7)^2 = 25$	**14.** (3, 5)	**15.** $(x - 7)^2 + (y - 3)^2 = 10$
16. 2	**17.** $\sqrt{30}$	**18.** (6, 2)
19. 3	**20.** $(x + 1)^2 + (y - 6)^2 = 9$	**21.** (-7, 1)
22. $(x - 7)^2 + (y + 2)^2 = 1$	**23.** 1	**24.** $x^2 + (y + 1)^2 = 9$