Task card 1 Equations of Circles

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

Task card 2 Equations of Circles

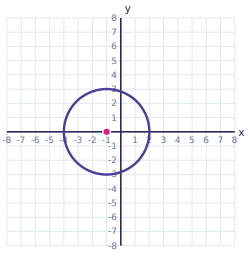
Write $x^2 + y^2 - 2x - 10y + 22 = 0$ in standard form by completing the square.

Task card 3 Equations of Circles

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

Task card 4 Equations of Circles

Write the equation of the circle shown.



Task card 5 Equations of Circles

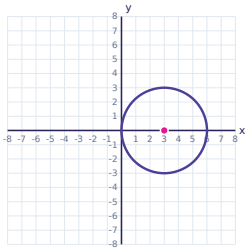
Find the radius of the circle $x^2 + y^2 + 6x - 4y - 12 = 0$.

Task card 6 Equations of Circles

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

Task card 7 Equations of Circles

Write the equation of the circle shown.



Task card 8 Equations of Circles

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

Task card 9 Equations of Circles

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

Task card 10 Equations of Circles

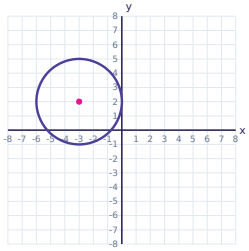
Write $x^2 + y^2 - 2x + 12y + 33 = 0$ in standard form by completing the square.

Task card 11 Equations of Circles

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

Task card 12 Equations of Circles

Write the equation of the circle shown.



Task card 13 Equations of Circles

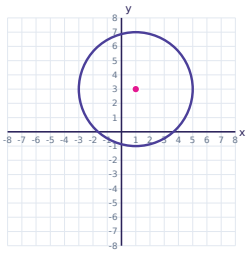
Find the radius of the circle $x^2 + y^2 - 14x + 6y - 42 = 0$.

Task card 14 Equations of Circles

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

Task card 15 Equations of Circles

Write the equation of the circle shown.



Task card 16 Equations of Circles

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

Task card 17 Equations of Circles

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

Task card 18 Equations of Circles

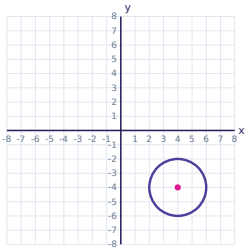
Write $x^2 + y^2 + 16x + 14y + 109 = 0$ in standard form by completing the square.

Task card 19 Equations of Circles

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

Task card 20 Equations of Circles

Write the equation of the circle shown.



Task card 21 Equations of Circles

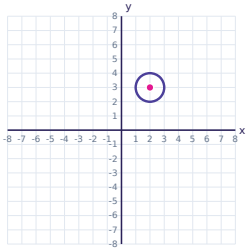
Find the radius of the circle $x^2 + y^2 + 12x - 8y - 48 = 0$.

Task card 22 Equations of Circles

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

Task card 23 Equations of Circles

Write the equation of the circle shown.



Task card 24 Equations of Circles

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

Equations of Circles Task Cards

Recording sheet · Grade 11 · Use the standard form $(x - h)^2 + (y - k)^2 = r^2$.

Name: _____ Date: _____

Scan to check your answers

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 11 · Hard

The answers online

1. (3, -1)	**2.** $(x - 1)^2 + (y - 5)^2 = 4$	**3.** $(x - 6)^2 + (y - 2)^2 = 25$
4. $(x + 1)^2 + y^2 = 9$	**5.** 5	**6.** $(x - 4)^2 + (y + 6)^2 = 49$
7. $(x - 3)^2 + y^2 = 9$	**8.** $(x + 4)^2 + (y - 5)^2 = 64$	**9.** (-2, -5)
10. $(x - 1)^2 + (y + 6)^2 = 4$	**11.** $(x - 5)^2 + (y + 9)^2 = 16$	**12.** $(x + 3)^2 + (y - 2)^2 = 9$
13. 10	**14.** $(x - 8)^2 + (y - 9)^2 = 49$	**15.** $(x - 1)^2 + (y - 3)^2 = 16$
16. $(x - 2)^2 + (y - 9)^2 = 16$	**17.** (-7, -3)	**18.** $(x + 8)^2 + (y + 7)^2 = 4$
19. $(x + 9)^2 + y^2 = 81$	**20.** $(x - 4)^2 + (y + 4)^2 = 4$	**21.** 10
22. $(x + 8)^2 + (y + 1)^2 = 49$	**23.** $(x - 2)^2 + (y - 3)^2 = 1$	**24.** $(x - 1)^2 + (y - 4)^2 = 25$