Task card 1 Conic Sections: Circles, Ellipses...

Find the center of the circle $(x - 7)^2 + (y + 6)^2 = 25$.

Task card 2 Conic Sections: Circles, Ellipses...

Find the length of the minor axis of the ellipse $x^2 / 64 + y^2 / 289 = 1$.

Task card 3 Conic Sections: Circles, Ellipses...

Find the center of the circle $(x + 2)^2 + (y - 1)^2 = 121$.

Task card 4 Conic Sections: Circles, Ellipses...

Find the length of the major axis of the ellipse $x^2 / 64 + y^2 / 289 = 1$.

Task card 5 Conic Sections: Circles, Ellipses...

Find the length of the major axis of the ellipse $x^2 / 144 + y^2 / 169 = 1$.

Task card 6 Conic Sections: Circles, Ellipses...

Find the length of the minor axis of the ellipse $x^2 / 169 + y^2 / 25 = 1$.

Task card 7 Conic Sections: Circles, Ellipses...

Find the radius of the circle $(x + 4)^2 + (y + 5)^2 = 121$.

Task card 8 Conic Sections: Circles, Ellipses...

Find the vertex with the larger x-coordinate of the ellipse $x^2 / 169 + y^2 / 25 = 1$.

Task card 9 Conic Sections: Circles, Ellipses...

Find the center of the circle $(x - 7)^2 + (y + 8)^2 = 16$.

Task card 10 Conic Sections: Circles, Ellipses...

Find the center of the ellipse $(x + 2)^2 / 9 + (y - 1)^2 / 25 = 1$.

Task card 11 Conic Sections: Circles, Ellipses...

Find the radius of the circle $(x - 8)^2 + (y - 6)^2 = 9$.

Task card 12 Conic Sections: Circles, Ellipses...

Find the length of the major axis of the ellipse $(x - 1)^2 / 100 + (y + 2)^2 / 64 = 1$.

Task card 13 Conic Sections: Circles, Ellipses...

Find the length of the major axis of the ellipse $(x + 3)^2 / 169 + (y - 6)^2 / 25 = 1$.

Task card 14 Conic Sections: Circles, Ellipses...

Find the center of the ellipse $(x - 1)^2 / 9 + (y + 3)^2 / 25 = 1$.

Task card 15 Conic Sections: Circles, Ellipses...

Find the radius of the circle $(x - 3)^2 + (y + 2)^2 = 49$.

Task card 16 Conic Sections: Circles, Ellipses...

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

Task card 17 Conic Sections: Circles, Ellipses...

Find the center of the circle $(x + 3)^2 + (y + 8)^2 = 16$.

Task card 18 Conic Sections: Circles, Ellipses...

Find c, the distance from the center to each focus of the ellipse $(x - 3)^2 / 144 + (y + 5)^2 / 169 = 1$.

Task card 19 Conic Sections: Circles, Ellipses...

Find the center of the hyperbola $(y - 3)^2 / 64 - (x - 4)^2 / 225 = 1$.

Task card 20 Conic Sections: Circles, Ellipses...

Complete the square to find the radius of the circle $x^2 + 2x + y^2 + 14y + 41 = 0$.

Task card 21 Conic Sections: Circles, Ellipses...

Find c, the distance from the center to each focus of the hyperbola $(y - 3)^2 / 36 - (x - 3)^2 / 64 = 1$.

Task card 22 Conic Sections: Circles, Ellipses...

Complete the square to find the radius of the circle $x^2 - 10x + y^2 - 14y + 38 = 0$.

Task card 23 Conic Sections: Circles, Ellipses...

Find the center of the circle $(x + 7)^2 + (y - 1)^2 = 121$.

Task card 24 Conic Sections: Circles, Ellipses...

Find the center of the ellipse $(x - 1)^2 / 25 + (y - 1)^2 / 16 = 1$.

Conic Sections: Circles, Ellipses & Hyperbolas Task Cards

Recording sheet · Grade 12 · Answer each question. Write points as (x, y).

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

Conic Sections: Circles, Ellipses & Hyperbolas Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. (7, -6)	**2.** 16	**3.** (-2, 1)
4. 34	**5.** 26	**6.** 10
7. 11	**8.** (13, 0)	**9.** (7, -8)
10. (-2, 1)	**11.** 3	**12.** 20
13. 26	**14.** (1, -3)	**15.** 7
16. 3	**17.** (-3, -8)	**18.** 5
19. (4, 3)	**20.** 3	**21.** 10
22. 6	**23.** (-7, 1)	**24.** (1, 1)