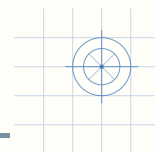


The equation of a circle — From the standard form



Name: _____

Date: _____

Write the center and radius of each circle.

1 $x^2 + (y + 2)^2 = 36$
center $(0, -2)$ $r = 6$

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

3 $x^2 + (y - 1)^2 = 4$

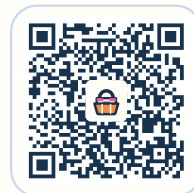
4 $(x - 4)^2 + y^2 = 100$

5 $(x - 1)^2 + (y + 6)^2 = 4$

6 $(x + 3)^2 + (y - 3)^2 = 4$

7 $(x + 1)^2 + y^2 = 81$

8 $(x - 3)^2 + (y - 4)^2 = 4$



The equation of a circle · From the standard form — Answer key



1. $x^2 + (y + 2)^2 = 36 \rightarrow$
center $(0, -2)$, radius 6

2. $(x - 3)^2 + (y - 3)^2 = 16 \rightarrow$
center $(3, 3)$, radius 4

3. $x^2 + (y - 1)^2 = 4 \rightarrow$ center
 $(0, 1)$, radius 2

4. $(x - 4)^2 + y^2 = 100 \rightarrow$
center $(4, 0)$, radius 10

5. $(x - 1)^2 + (y + 6)^2 = 4 \rightarrow$
center $(1, -6)$, radius 2

6. $(x + 3)^2 + (y - 3)^2 = 4 \rightarrow$
center $(-3, 3)$, radius 2

7. $(x + 1)^2 + y^2 = 81 \rightarrow$
center $(-1, 0)$, radius 9

8. $(x - 3)^2 + (y - 4)^2 = 4 \rightarrow$
center $(3, 4)$, radius 2