



Math on the Fly!

NAME: _____

DATE: _____

Equations of Circles

Find the center and radius of each circle below.

1. $(x - 6)^2 + (y + 8)^2 = 25$

2. $x^2 + (y + 4)^2 = 81$

3. $x^2 + y^2 = 49$

4. $(x + 5)^2 + (y + 6)^2 = 20$

5. $(x + 9)^2 + (y - 7)^2 = 16$

6. $(x - 10)^2 + y^2 = 1$

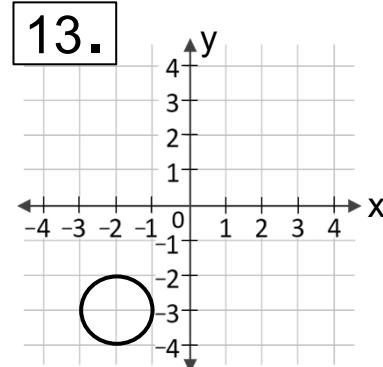
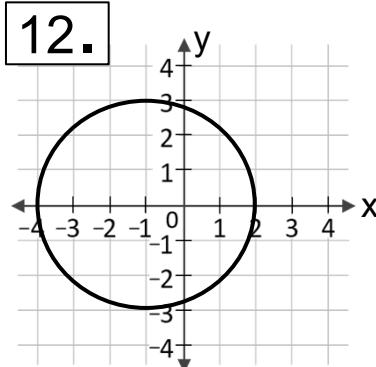
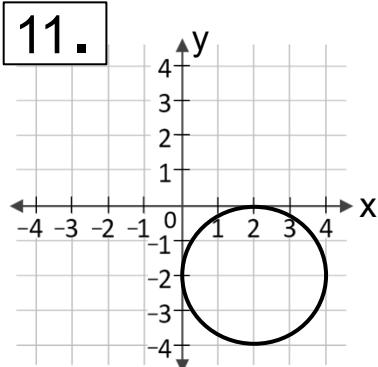
Find the equation of each circle.

7. Center = (1,9), Radius = 6

8. Center = (0,0), Radius = 10

9. Center = (0,-8), Radius = 8

10. Center = (-4,3), Radius = $\sqrt{5}$



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SOLUTIONS

1. Center = $(6, -8)$
Radius = $\sqrt{25} = 5$

2. Center = $(0, -4)$
Radius = $\sqrt{81} = 9$

3. Center = $(0, 0)$
Radius = $\sqrt{49} = 7$

4. Center = $(-5, -6)$
Radius = $\sqrt{20} \approx 4.47$

5. Center = $(-9, 7)$
Radius = $\sqrt{16} = 4$

6. Center = $(10, 0)$
Radius = $\sqrt{1} = 1$

7. $(x - 1)^2 + (y - 9)^2 = 36$

8. $x^2 + y^2 = 100$

9. $x^2 + (y + 8)^2 = 64$

10. $(x + 4)^2 + (y - 3)^2 = 5$

11. $(x - 2)^2 + (y + 2)^2 = 4$

12. $(x + 1)^2 + y^2 = 9$

13. $(x + 2)^2 + (y + 3)^2 = 1$