

2021 Geometry Writing An Equation of a Circle (Big Idea Geometry Section 10.7)

Lesson 059 | Geometry | Circles, chords and equations

<https://www.youtube.com/watch?v=n7Jc8GvXyvg>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Write the equation of a circle with center $(-7,3)$ and radius 14. Find its x-extremes and y-extremes.

02

Write the equation of a circle with center $(6,9)$ and radius 11. Find its x-extremes and y-extremes.

03

Write the equation of a circle with center $(2,10)$ and radius 11. Find its x-extremes and y-extremes.

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04

Write the equation of a circle with center (7,12) and radius 3. Find its x-extremes and y-extremes.

05

Write the equation of a circle with center (4,9) and radius 6. Find its x-extremes and y-extremes.

06

Write the equation of a circle with center (7,3) and radius 12. Find its x-extremes and y-extremes.

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01

Write the equation of a circle with center $(-7,3)$ and radius 14. Find its x-extremes and y-extremes.

$(x-(-7))^2+(y-3)^2=196$. Left/right: $(-21,3)$, $(7,3)$; bottom/top: $(-7,-11)$, $(-7,17)$.

02

Write the equation of a circle with center $(6,9)$ and radius 11. Find its x-extremes and y-extremes.

$(x-(6))^2+(y-9)^2=121$. Left/right: $(-5,9)$, $(17,9)$; bottom/top: $(6,-2)$, $(6,20)$.

03

Write the equation of a circle with center $(2,10)$ and radius 11. Find its x-extremes and y-extremes.

$(x-(2))^2+(y-10)^2=121$. Left/right: $(-9,10)$, $(13,10)$; bottom/top: $(2,-1)$, $(2,21)$.

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04

Write the equation of a circle with center (7,12) and radius 3. Find its x-extremes and y-extremes.

$(x-(7))^2+(y-12)^2=9$. Left/right: (4,12), (10,12); bottom/top: (7,9), (7,15).

05

Write the equation of a circle with center (4,9) and radius 6. Find its x-extremes and y-extremes.

$(x-(4))^2+(y-9)^2=36$. Left/right: (-2,9), (10,9); bottom/top: (4,3), (4,15).

06

Write the equation of a circle with center (7,3) and radius 12. Find its x-extremes and y-extremes.

$(x-(7))^2+(y-3)^2=144$. Left/right: (-5,3), (19,3); bottom/top: (7,-9), (7,15).