

Summer Geometry Semester 1 Unit 6 Circles

Lesson 030 | Geometry | Circles, chords and equations

<https://www.youtube.com/watch?v=fcrOwjDv64A>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Write the equation of a circle with center (4,6) and radius 12. Find its x-extremes and y-extremes.

02

Write the equation of a circle with center (-2,14) and radius 11. Find its x-extremes and y-extremes.

03

Write the equation of a circle with center (-9,3) and radius 12. Find its x-extremes and y-extremes.

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04

Write the equation of a circle with center $(-5,6)$ and radius 14. Find its x-extremes and y-extremes.

05

Write the equation of a circle with center $(2,14)$ and radius 10. Find its x-extremes and y-extremes.

06

Write the equation of a circle with center $(-2,11)$ and radius 8. Find its x-extremes and y-extremes.

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01

Write the equation of a circle with center (4,6) and radius 12. Find its x-extremes and y-extremes.

$(x-4)^2 + (y-6)^2 = 144$. Left/right: (-8,6), (16,6); bottom/top: (4,-6), (4,18).

02

Write the equation of a circle with center (-2,14) and radius 11. Find its x-extremes and y-extremes.

$(x-(-2))^2 + (y-14)^2 = 121$. Left/right: (-13,14), (9,14); bottom/top: (-2,3), (-2,25).

03

Write the equation of a circle with center (-9,3) and radius 12. Find its x-extremes and y-extremes.

$(x-(-9))^2 + (y-3)^2 = 144$. Left/right: (-21,3), (3,3); bottom/top: (-9,-9), (-9,15).

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04

Write the equation of a circle with center $(-5,6)$ and radius 14. Find its x-extremes and y-extremes.

$(x-(-5))^2+(y-6)^2=196$. Left/right: $(-19,6)$, $(9,6)$; bottom/top: $(-5,-8)$, $(-5,20)$.

05

Write the equation of a circle with center $(2,14)$ and radius 10. Find its x-extremes and y-extremes.

$(x-(2))^2+(y-14)^2=100$. Left/right: $(-8,14)$, $(12,14)$; bottom/top: $(2,4)$, $(2,24)$.

06

Write the equation of a circle with center $(-2,11)$ and radius 8. Find its x-extremes and y-extremes.

$(x-(-2))^2+(y-11)^2=64$. Left/right: $(-10,11)$, $(6,11)$; bottom/top: $(-2,3)$, $(-2,19)$.