

2021 Geometry External, Internal and Tangent Chord Angles Of A Circle (Big Idea Geome...

Lesson 057 | Geometry | Interior and exterior circle angles

<https://www.youtube.com/watch?v=ZA7ZlhsEMmw>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 24° and 12° . Find that angle. For two secants meeting outside with intercepted arcs 36° and 24° , find the external angle.

02

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 10° and 45° . Find that angle. For two secants meeting outside with intercepted arcs 55° and 10° , find the external angle.

03

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 14° and 26° . Find that angle. For two secants meeting outside with intercepted arcs 40° and 14° , find the external angle.

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04

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 6° and 26° . Find that angle. For two secants meeting outside with intercepted arcs 32° and 6° , find the external angle.

05

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 40° and 30° . Find that angle. For two secants meeting outside with intercepted arcs 70° and 40° , find the external angle.

06

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 12° and 9° . Find that angle. For two secants meeting outside with intercepted arcs 21° and 12° , find the external angle.

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- 01** Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 24° and 12° . Find that angle. For two secants meeting outside with intercepted arcs 36° and 24° , find the external angle.

Interior angle is half the sum: 18° . Exterior angle is half the difference: 6° .

- 02** Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 10° and 45° . Find that angle. For two secants meeting outside with intercepted arcs 55° and 10° , find the external angle.

Interior angle is half the sum: $55/2^\circ$. Exterior angle is half the difference: $45/2^\circ$.

- 03** Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 14° and 26° . Find that angle. For two secants meeting outside with intercepted arcs 40° and 14° , find the external angle.

Interior angle is half the sum: 20° . Exterior angle is half the difference: 13° .

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04

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 6° and 26° . Find that angle. For two secants meeting outside with intercepted arcs 32° and 6° , find the external angle.

Interior angle is half the sum: 16° . Exterior angle is half the difference: 13° .

05

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 40° and 30° . Find that angle. For two secants meeting outside with intercepted arcs 70° and 40° , find the external angle.

Interior angle is half the sum: 35° . Exterior angle is half the difference: 15° .

06

Two chords intersect inside a circle. The arcs intercepted by one angle and its vertical angle measure 12° and 9° . Find that angle. For two secants meeting outside with intercepted arcs 21° and 12° , find the external angle.

Interior angle is half the sum: $21/2^\circ$. Exterior angle is half the difference: $9/2^\circ$.