

10.5

What you should know

• How to find the length of a chord in a circle

• How to find the length of a segment of a circle

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Segment Lengths in Circles

Problem Solving: The Relationship Between Chords and Segments

When two chords intersect inside a circle, the segments of the chords are proportional. This relationship is called the **Intersecting Chords Theorem**. It can be used to find the length of a segment of a chord if the lengths of the other two segments of the chord are known.

Example 1

Problem Solving

In the circle, find the length of the segment of the chord that is perpendicular to the radius. The radius is 10 units long. The segment of the chord that is perpendicular to the radius is 6 units long.



Let x be the length of the segment of the chord that is perpendicular to the radius.

Let y be the length of the segment of the chord that is perpendicular to the radius.

Let z be the length of the segment of the chord that is perpendicular to the radius.



Let x be the length of the segment of the chord that is perpendicular to the radius. Let y be the length of the segment of the chord that is perpendicular to the radius. Let z be the length of the segment of the chord that is perpendicular to the radius.

$$x^2 + y^2 = 10^2$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

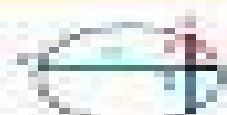
$$x^2 + 6^2 = 10^2$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

Problem Solving: The Relationship Between Chords and Segments

When two chords intersect inside a circle, the segments of the chords are proportional. This relationship is called the **Intersecting Chords Theorem**. It can be used to find the length of a segment of a chord if the lengths of the other two segments of the chord are known.

Let x be the length of the segment of the chord that is perpendicular to the radius.



Example 1

$$x^2 + y^2 = 10^2$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

$$x^2 + 6^2 = 10^2$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

$$x^2 = 10^2 - 6^2$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

$$x = 8$$

The length of the segment of the chord that is perpendicular to the radius is 6 units.

Example 2 Find the length of the segment of the chord that is perpendicular to the radius.



10 5 Find Segments Lengths Circle Answers

**H.K. Dass, Rama Verma & Bhagwat S.
Sharma**



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