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Lesson 10.2 Exploring
Chord Properties 1.)
Draw two different
chords. 2.) Construct
the perpendicular
bisector of each chord.
3.) Where do the
perpendicular bisectors
intersect? Properties of
a circle Perpendicular

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Bisector of a Chord If you are given any two of the following three statements you can imply the third. The line goes through the center. The line bisects a chord

Lesson 10.2 **Exploring Chord** **Properties**

Solution Step 1: Draw 2 chords on the circle.

Step 2: O Find the midpoint (middle) of each chord. Use a ruler

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or fold the paper. Step
3: O Use a right
triangle ruler to draw
the perpendicular
bisector of each chord,
Step 4: O Put a dot
where the 2
perpendicular bisectors
cross. This is the
centre of the circle.

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10.2 Exploring Chord
Properties 12 March
26, 2014 Chord
Properties The shortest
path between the

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centre of a circle and a chord is a line that is perpendicular to the chord. 13. 10.2

Exploring Chord Properties 13 March 26, 2014 Examples Find the indicated values for the following diagrams.

10.2 Exploring Chord Properties - SlideShare

Solution Draw two chords. Locate the midpoint of each

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chord. Use a carpenter's square to draw the perpendicular bisectors of each chord. Locate the point of intersection of the two perpendicular bisectors. The point of intersection is the centre of the table.

Examp to 1', Bisect a Chord With a Radius
Radius CD bisects chord
Chord measures

Concept Definition

Example

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Theorem on Chord
Properties Theorem 1:
Equal Chords Equal
Angles Theorem
Statement: Chords
which are equal in
length subtend equal
angles at the center of
the circle.

RS Aggarwal Class-9 Chord Properties of Circle ICSE Maths ...

We can use this
property to find the
center of any given
circle. Example:

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Determine the center of the following circle.

Solution: Step 1: Draw 2 non-parallel chords .

Step 2: Construct perpendicular bisectors for both the chords.

The center of the circle is the point of intersection of the perpendicular bisectors.

Chords Of A Circle Theorems - Online Math Learning

congruent if and only if

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their corresponding
chords are congruent.

if and only if $AB \cong BC$

Theorem 10.5 If a
diameter of a circle is
perpendicular to a
chord, then the
diameter bisects the
chord and its arc. $DE \cong EF$, $\angle D \cong \angle E$

Theorem 10.6 If one
chord is a
perpendicular bisector
of another chord, then
the first chord is a
diameter.

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Section 10.1

**Tangents to Circles -
Mater Academy
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Look activities. You can find solutions for the Investigations and Explorations in the Teacher's Edition. The solutions in this Solutions Manual are more complete than those offered as

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annotations in the
Teacher's Edition.

Although complete
solutions for the
problems are provided
here, keep in mind that
often there is more
than one

Discovering Geometry - Flourish

Chord properties . 3.

Tangent properties. 4.

Circles and

circumference . 5. Arcs

of a circle. 6. Areas and

sectors of circles. 7.

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Solutions
Central angles and proofs. 8. Inscribed angles and proofs. 9. Central and inscribed angles in circles. 10. Circle chord, tangent, and inscribed angles proofs. Back to Course Index

What is the chord of a circle? | StudyPug

Some of the important properties of the circle are as follows: The circles are said to be congruent if they have

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equal radii The diameter of a circle is the longest chord of a circle Equal chords and equal circles have the equal circumference

Properties of Circle with Definition and Formulas

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Some tangent properties that you should keep in mind to help you solve problems include: 1) A tangent is perpendicular to the radius at the point of tangency. 2) Tangent segments to an external point of a circle are equal. 3) The

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angle between a tangent and a chord is equal to the inscribed angle on the opposite side of that chord.

What are tangent lines in circles? | StudyPug

These activities begin with pencil and paper explorations. Students use the Circle geometry investigations: Student worksheet to form an hypothesis and write a

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simple explanation or
annotate a diagram.
They then investigate
further using the free
GeoGebra software and
write conclusions
explaining what has
been found..
Encourage precise
wording of the details
of the conclusions.

**Circle geometry
investigations /
Explore, predict,
confirm ...**

Community Climate
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Access Free Exploring Chord Properties Solutions' GO CO 2

Free platform is the first comprehensive online community platform designed to engage and empower individual households on climate and sustainability actions. GO CO 2 Free provides cities the ability to easily scale efforts and accelerate local emissions reduction and sustainability programs.

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Solution a. } AC is a radius because C is the center and A is a point on the circle. b. } AB is a diameter because it is a chord that contains the center C. c.]> DE is a tangent ray because it is contained in a line that intersects the circle at only one point. d. <]> AE is a secant because it is a line that intersects the circle in two points.

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Solutions **Properties of Circles** **- Mrs. Luthi's** **geometry**

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A radius or diameter that is perpendicular to a chord divides the chord into two equal parts and vice versa. A tangent to a circle is perpendicular to the radius drawn to the point of tangency.

When two segments are drawn tangent to a

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circle from the same point outside the circle, the segments are equal in length.

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