

Period 4 & 5: Geometry Timeline Schedule

Mon - May 6 --- Review work online 10.7 and worksheets to create a packet of notes with student journal pgs. 278, 282, 304, 307, 310, 311, 312

Tuesday - May 7 --- **Test** on Ch. 10 circles Sections 1,5,6,7 on segment formulas with notes and formula sheet

Wed - May 8 --- Students take notes on the section 10.2 Angles/Arcs

Thurs. --- Review notes and assign 10.2 online bigideasmath.com

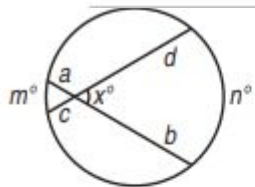
Friday --- Inscribed angles - Drawing discovery/verification activity

Formulas with a, b, c, d, are the focus on segments for test

KEYSTONE

REFERENCE

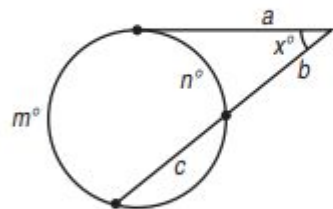
GEOMETRY FORMULA SHEET – PAGE 1



2 Chords

$$a \cdot b = c \cdot d$$

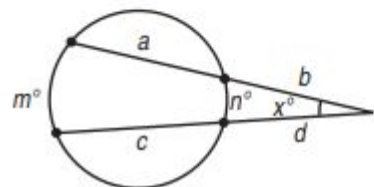
$$x = \frac{1}{2}(m + n)$$



Tangent-Secant

$$a^2 = b(b + c)$$

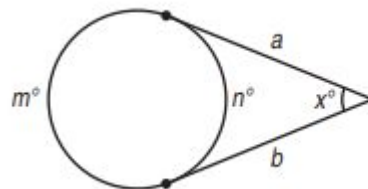
$$x = \frac{1}{2}(m - n)$$



2 Secants

$$b(a + b) = d(c + d)$$

$$x = \frac{1}{2}(m - n)$$

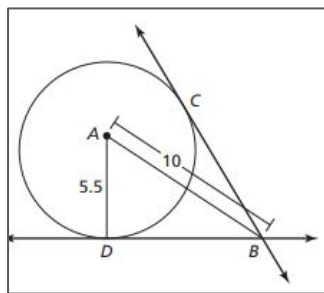


2 Tangents

$$a = b$$

$$x = \frac{1}{2}(m - n)$$

We will add to the sheet the following to help students for our course tests.

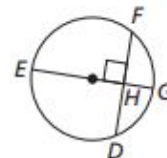


10.7 Perpendicular Chord Bisector Theorem

If a diameter of a circle is perpendicular to a chord, then the diameter bisects the chord and its arc.

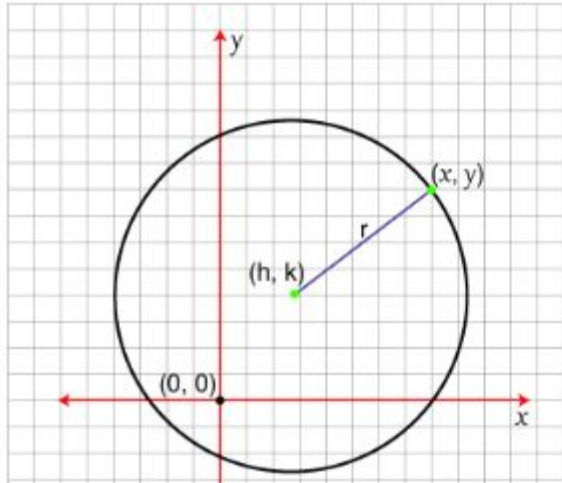
10.8 Perpendicular Chord Bisector Converse

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



10.7 EQUATION of circle --- for Next week to complete unit

Equation of a Circle



$$r^2 = (x - h)^2 + (y - k)^2$$

here,

r = radius,

(h, k) = center,

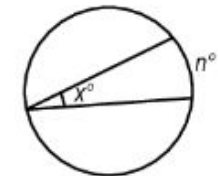
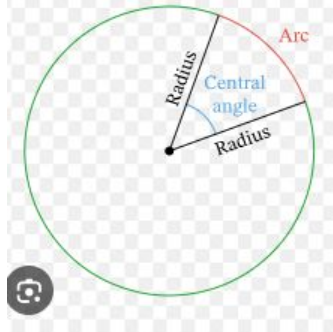
(x, y) = a point on the
circumference

Formulas with x, m, n are the focus on angles for test

KEYSTONE

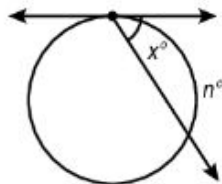
REFERENCE

GEOMETRY FORMULA SHEET – PAGE 1



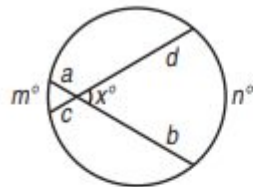
Inscribed Angle

$$x = \frac{1}{2}n$$



Tangent-Chord

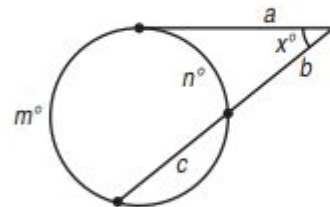
$$x = \frac{1}{2}n$$



2 Chords

$$a \cdot b = c \cdot d$$

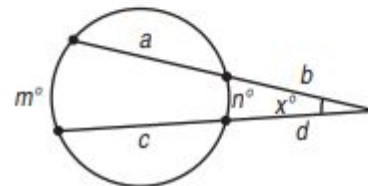
$$x = \frac{1}{2}(m + n)$$



Tangent-Secant

$$a^2 = b(b + c)$$

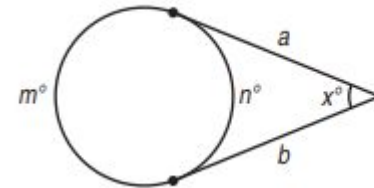
$$x = \frac{1}{2}(m - n)$$



2 Secants

$$b(a + b) = d(c + d)$$

$$x = \frac{1}{2}(m - n)$$



2 Tangents

$$a = b$$

$$x = \frac{1}{2}(m - n)$$

Section 10.2 Objectives & Vocabulary

Video Notes from textbook online app Examples 1-4

Student Journal pg. 287 # 1-11 as practice and examples

Geometry Lesson 10.2 – Day 1: Finding Arc Measures

Essential Question: How are circular arcs measured?

Lesson Objective(s): Students will find arc measures.

Students will identify congruent arcs.

Students will prove circles are similar.

Previous Learning: Students have explored and defined the different lines and segments that intersect circles.

New Vocabulary: central angle, minor arc, major arc, semicircle, measure of a minor arc, measure of a major arc, adjacent arcs, congruent circles, congruent arcs, similar arcs

CC State Standards

HSG-C.A.1
HSG-C.A.2

CC Mathematical Practice Focus

MP2, MP5

Online Assignment - bigideasmath.com 10.2

Finding Arc Measures

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Section 10.4 Objectives & Vocabulary

Video Notes from textbook online app Examples 1-4

Student Journal pg 293-296 Show the inscribed angle using tools

Student Journal pg. 297 # 1-7as practice and examples

Geometry Lesson 10.4 – Day 1: Inscribed Angles and Polygons

Essential Questions: How are inscribed angles related to their intercepted arcs? How are the angles of an inscribed quadrilateral related to each other?

Lesson Objective(s): Students will use inscribed angles.
Students will use inscribed polygons.

Previous Learning: Students have learned about the measures of angles and angles of polygons.

New Vocabulary: inscribed angle, intercepted arc, subtend, inscribed polygon, circumscribed circle

CC State Standards

HSG-CO.D.13
HSG-C.A.2
HSG-C.A.3

CC Mathematical Practice Focus

MP3, MP6

Online Assignment - bigideasmath.com 10.4

Darkened problems only

1	2	3*	4	5*	6	7*	8	9	10
11*	12	13*	14	15*	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Other Worksheets to practice objectives

Resource Textbook worksheets

10.2 Practice A

10.2 Puzzletime

10.4 Practice A

10.5 Practice A

Kuta Software

Arcs and Inscribed Angles

Secant Angles

Tangent and Secant Angles