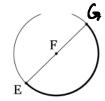
Notes Sheet

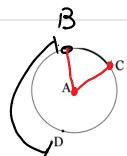
Tuesday, March 03, 2015 7:43 AM

Notes



10.3 - Arcs of a Circle

BC

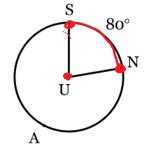


Word	Notation	My definition
arc		
central angle	2BAC	
minor arc	BC	
major arc	BDC	
semicircle		¿ Circle ⇒ 180°

The measure of a minor arc is:

800

The measure of a major arc is: 7 80°



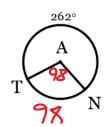
$$\widehat{SAN} = \underline{360 - 5N}$$

$$360 - 45UN$$

Find the measure the missing major arcs, minor arcs, and/or central angles

248 E (1120) 1120 F







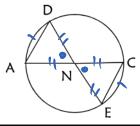




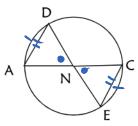
Relationships Among Congruent Arcs, Chords, and Central Angles

If two arcs of a circle are congruent then:

Given:



Know:



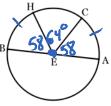
Therefore:

Central 43 = (Arcs = (Chards =

Examples:

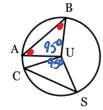
1) Given: $\bigcirc E, \widehat{BH} \cong \widehat{CA}$ $\angle CEA = 58^{\circ}$

Find: m∠HEC



2) Given: \bigcirc U, $\overrightarrow{AB} \cong \overrightarrow{CS}$ \angle CUS = 95°

Find: m∠UBA



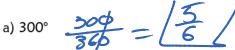
42.56

3) Find the measure of an arc that is

a) 20% of the circle = (3



4) What fractional part of a circle is an arc that measures:



b) 80°

$$\frac{80}{360} = \frac{12}{9}$$

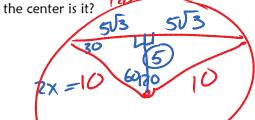
5) A circle with radius 8 mm is given. How long is an arc measuring 30°?



p = 1611 30 = 12



6) The chord of a circle of radius 10 cuts of an arc 120°. How long is the chord and how far from



±(20T)