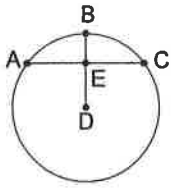
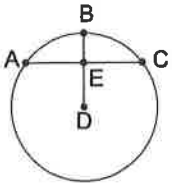
Chapter 8: Circles
Arcs and Chords
Classwork

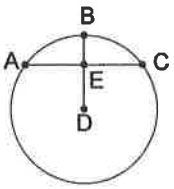
Name _____
Date _____
Period _____

1. 

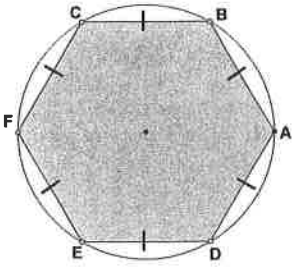
$AC \perp BD$
$m\overset{\frown}{ABC} = 94°$
Find $\overset{\frown}{AB}$ _____

2. 

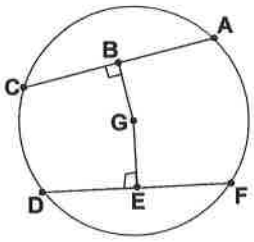
$AC \perp BD$
$m\overline{AE} = 4$
Find $\overline{AC}$ _____

3. 

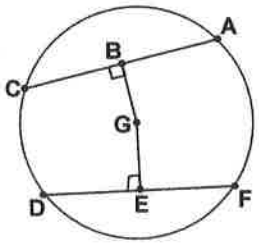
$AC \perp BD$
$m\overline{AC} = 12$
$m\overline{DE} = 8$
Find the radius_____

4. 

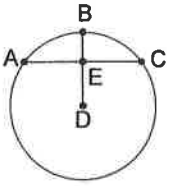
Find $\overset{\frown}{AB}$ _____
Find $\overset{\frown}{ABF}$ _____
Find $\overset{\frown}{ABD}$ _____

5. 

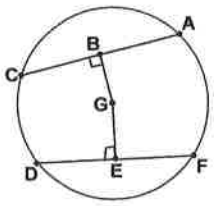
$\overline{GB} \cong \overline{GE}$
$m\overline{EF} = 10$
Find $\overline{DF}$ _____

6. 

$\overline{GB} \cong \overline{GE}$
$m\overline{EF} = 5$
Find $m\overline{CA}$ = ____

7. 

$AC \perp BD$
$DA = 17$
$m\overline{ED} = 8$
Find AC _____

8. 

$\overline{AC} \cong \overline{DF}$
$m\overset{\frown}{AC} = 100°$
Find $m\overset{\frown}{DF}$ _____

9. Suppose a chord is 9 meters from the center of a circle. It is 20 meters long. Find the length of the radius. _____

10. Find the length of a chord 4 inches from the center of a circle with a radius of 5 inches.
_____

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Homework

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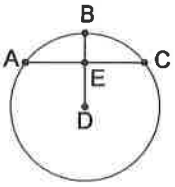
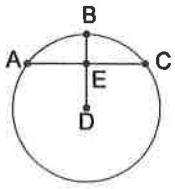
1. 

$\overline{AE} \cong \overline{EC}$

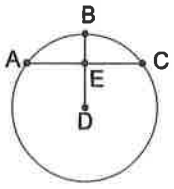
Find $m\angle AEB$ _____

2. 

$AC \perp BD$

$m\overline{AC} = 10$

Find $m\overline{AE}$ _____

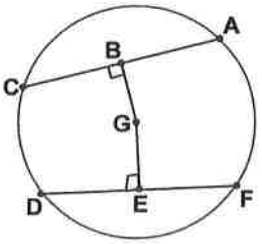
3. 

$AC \perp BD$

$m\overline{ED} = 22$

$DC = 32$

Find $m\overline{EB}$ _____

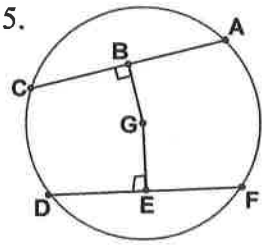
4. 

$\overline{AC} \cong \overline{DF}$

$m\overset{\frown}{AF} = 80°$

$m\overset{\frown}{CD} = 60°$

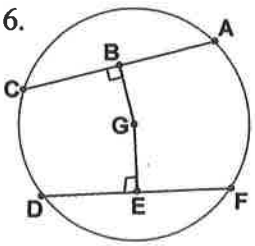
Find $m\overset{\frown}{AC}$ _____

5. 

$\overline{AC} \cong \overline{DF}$

$m\overline{BG} = 4$

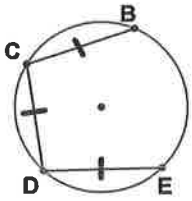
Find $m\overline{GE}$ _____

6. 

$m\overline{GE} = 7$

$GF = 25$

Find $m\overline{DF}$ _____

7. 

$m\overset{\frown}{BE} = 210°$

Find $m\overset{\frown}{CD}$ _____

8. Suppose that a circle has a radius of 35 units and a chord is 56 units. Find the distance from the center to the chord.

_____.

9. Suppose the diameter of a circle is 20 feet long and a non-intersecting chord is 12 feet long. Find the distance between the chord and the center. _____