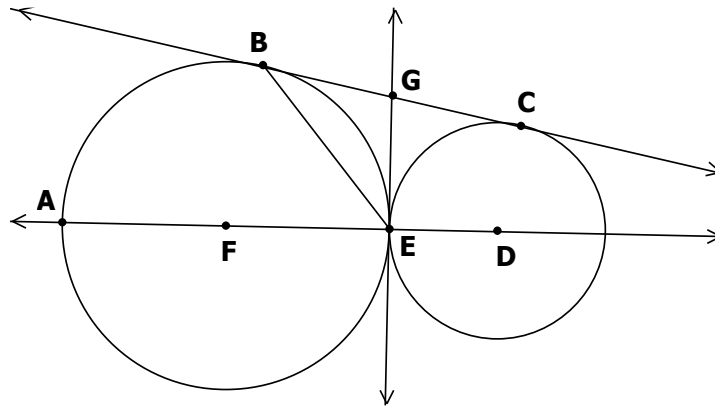


Throughout the review, assume that things that appear to be tangent really are tangent.



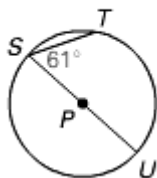
1. **Vocab.** Match each object to the word/phrase that **best** describes it.

- | | | | |
|-------------------------|------------------------|-----------|------------|
| common external tangent | chord (not a diameter) | minor arc | |
| common internal tangent | diameter | secant | major arc |
| point of tangency | radius | center | semicircle |

- | | | | |
|------------------------------|-------|------------------------------|-------|
| a. \overline{AE} | _____ | f. \overleftrightarrow{EG} | _____ |
| b. \overleftrightarrow{AD} | _____ | g. \widehat{BE} | _____ |
| c. \overleftrightarrow{BC} | _____ | h. E | _____ |
| d. \overline{DE} | _____ | i. \overline{BE} | _____ |
| e. F | _____ | j. \widehat{BEA} | _____ |
| | | k. \widehat{ABE} | _____ |

2. **Angle and Arc Measures.** Find the requested measure.

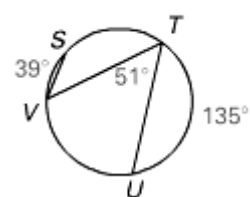
a. $m\widehat{ST}$



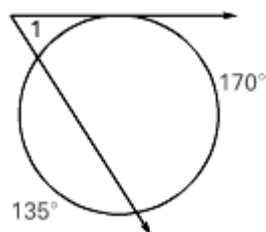
b. $m\angle JLM$



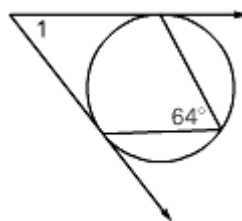
c. $m\widehat{VST}$



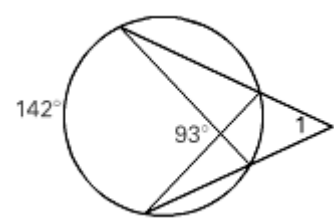
d. $m\angle 1$



e. $m\angle 1$

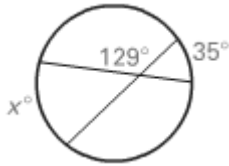


f. $m\angle 1$



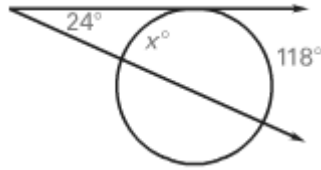
3. Angle and Arc Measures, continued. Find the value of x .

a.



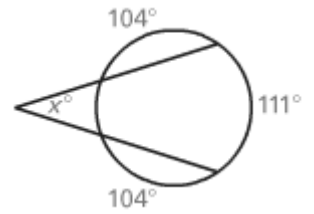
$x = \underline{\hspace{2cm}}$

b.



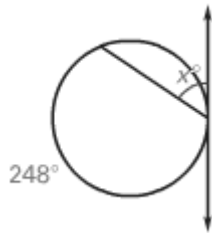
$x = \underline{\hspace{2cm}}$

c.



$x = \underline{\hspace{2cm}}$

d.



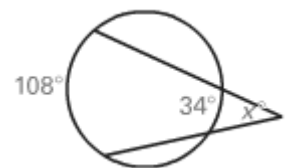
$x = \underline{\hspace{2cm}}$

e.



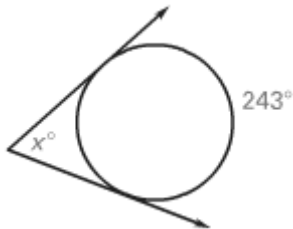
$x = \underline{\hspace{2cm}}$

f.



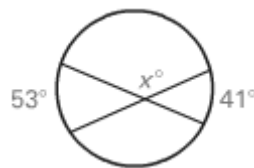
$x = \underline{\hspace{2cm}}$

g.



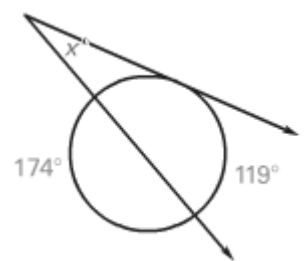
$x = \underline{\hspace{2cm}}$

h.



$x = \underline{\hspace{2cm}}$

i.



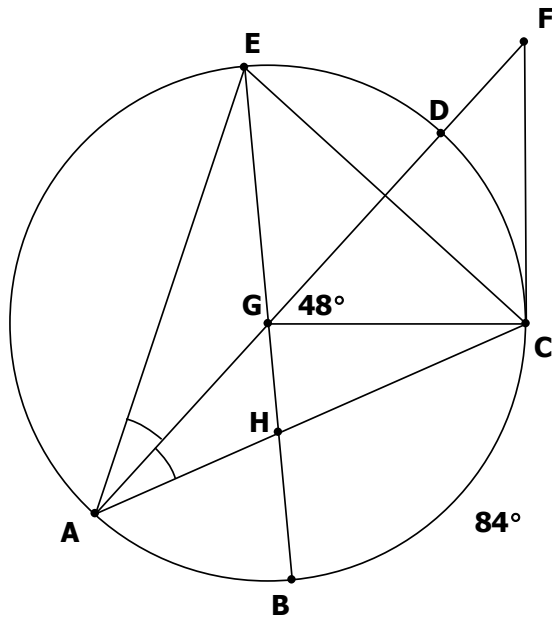
$x = \underline{\hspace{2cm}}$

6. Arc length and sector area.

- a. Find exact arc length if radius of a circle and central angle are: $r = 10$; angle = 140°
 b. Find the central angle measure of a circle if arc length is approximately 26.70 cm and radius is 6cm.

		a.	b.	c.	d.
radius		10	6	18	
central angle		140°			130°
arc length	exact		<i>N/A</i>		<i>N/A</i>
	approximate		26.70		
area of sector	exact		<i>N/A</i>	270π	<i>N/A</i>
	approximate				10.21

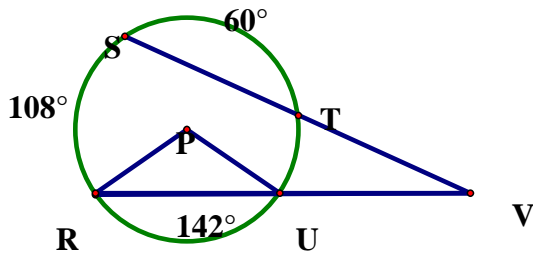
7. Circle Puzzles.



Given: $m\angle DGC = 48^\circ$; $m\widehat{BC} = 84^\circ$
 \overline{AD} & \overline{BE} are diameters of $\odot P$;
 \overline{CF} is tangent to $\odot P$ at C .

- a. $m\widehat{CD}$ _____
- b. $m\angle F$ _____
- c. $m\angle FCG$ _____
- d. $m\widehat{ED}$ _____
- e. $m\widehat{AC}$ _____
- f. $m\angle GHC$ _____
- g. $m\angle BEC$ _____

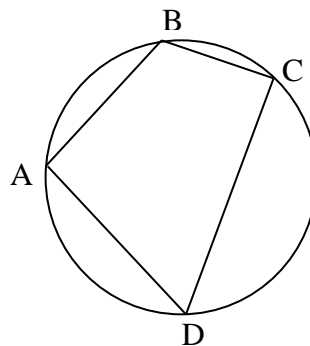
8. Find the $m\angle TVU$.



The quadrilateral is inscribed in the circle with angle $A = 7x$, angle $B = 5y$, angle $C = 3x$, and angle $D = 3y$. Solve for x and y .

12. $x =$ _____

13. $y =$ _____

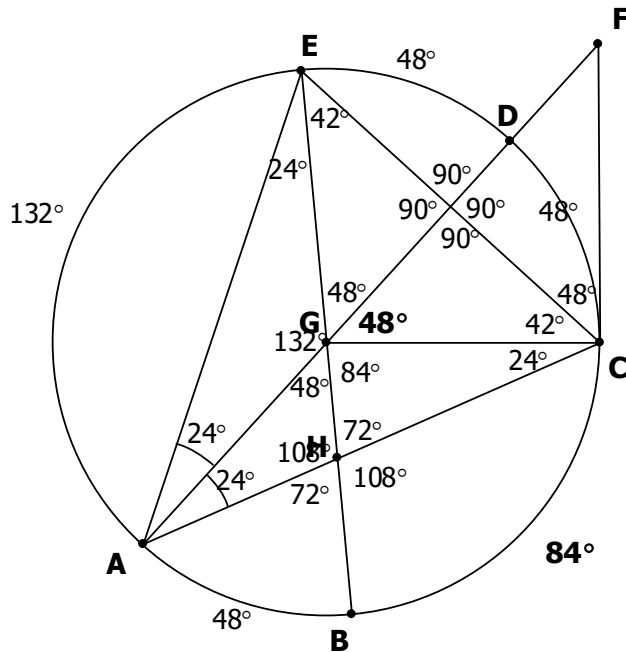


Circles Test Practice KEY!

1. a. diameter f. common int. tangent 2. a. 58° b. 46° c. 123°
 b. secant g. minor arc d. 57.5° e. 52° f. 49°
 c. common ext. tangent h. point of tangency
 d. radius i. chord
 e. center j. major arc
 k. semicircle
3. a. 67° b. 70° c. 35° 4. a. 20 b. 117 c. 5 5. a. 15 b. 2 c. 6
 d. 56° e. 128° f. 37° d. 24 e. 1, -2.5 f. 11.25 d. 5 e. 2 f. 30
 g. 63° h. 133° i. 26°

6.		a.	b.	c.	d.
radius		10	6	18	3
central angle		140°	254.97°	300°	130°
arc length	exact	$\frac{70}{9}\pi$	N/A	30π	N/A
	approx.	24.43	26.70	94.25	6.81
area of sector	exact	$\frac{350}{9}\pi$	N/A	270π	N/A
	approx.	122.11	80.1	848.23	10.21

7. Circle Puzzles.



- a. 48°
- b. 42°
- c. 90°
- d. 48°
- e. 132°
- f. 72°

g. 42°