

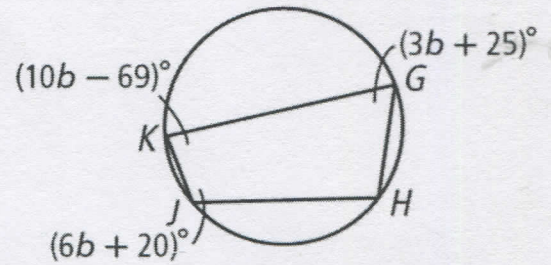
10.4 Inscribed Angles & Polygons CYU

Use when you get it right all by yourself
S Use when you did it all by yourself, but made a silly mistake
H Use when you could do it alone with a little help from teacher or peer
G Use when you completed the problem in a group
X Use when a question was attempted but wrong (get help)
N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Finding angle measures of inscribed polygons		1	5, 6
Inscribed angles		2, 3	
Intercepted arcs		2, 3	
Inscribed Right Triangle Theorem		4	
Inscribed Quadrilateral Theorem		1	5, 6

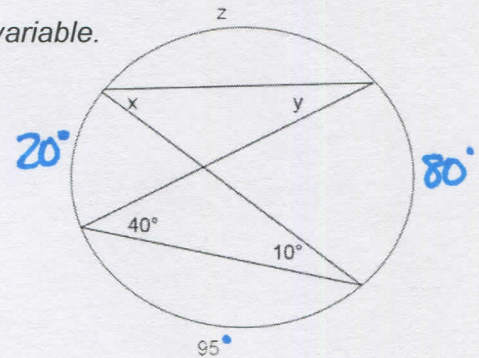
1. Find the angle measures of GHJK.

$m\angle K = 81^\circ$
 $m\angle G = 70^\circ$
 $m\angle J = 110^\circ$
 $m\angle H = 99^\circ$



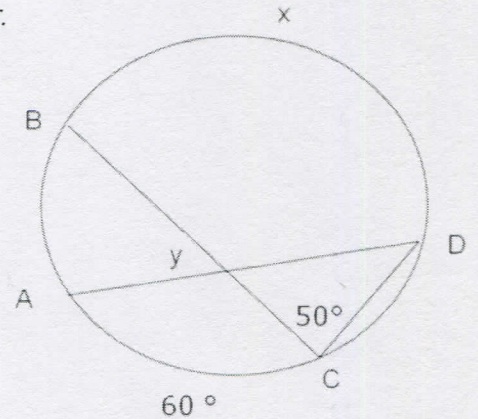
2. Find the missing pieces of the circle and state the value for each variable.

$x = 40$
 $y = 10$
 $z = 165$



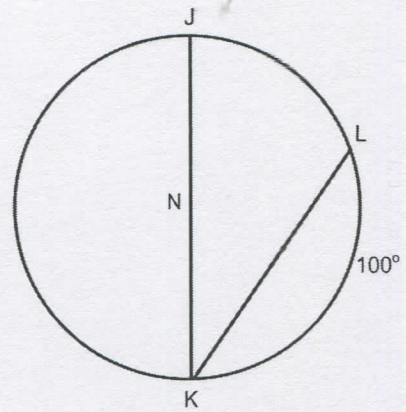
3. Find x. Then find $m\angle ADC$. Show all work to justify your answer.

$x = 100^\circ$
 $m\angle ADC = 30^\circ$

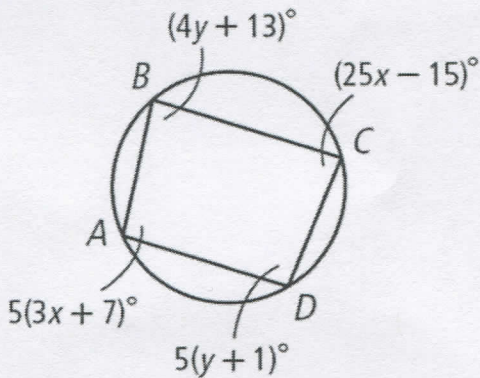


4. Find $m\angle JKL$, if \overline{JK} is a diameter.

$$m\angle JKL = 40^\circ$$

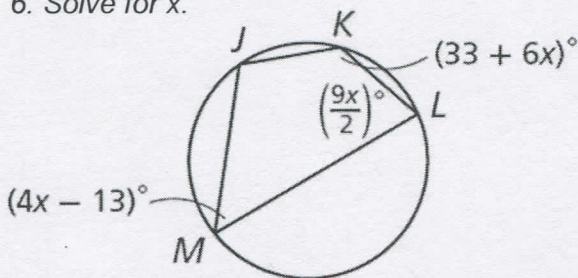


5. Solve for x and y .



$$\begin{aligned} x &= 4 \\ y &= 18 \end{aligned}$$

6. Solve for x .



$$x = 16$$

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

●	●	●	●	●	●	●	●
1	2	3	4	5	6	7	8
Basic		Intermediate			Advanced		Solved ALL!

