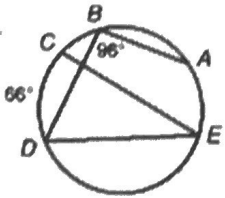


Day 2-Inscribed Angles & Polygons

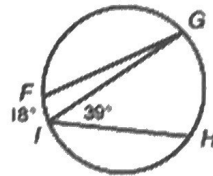
1.



$$m\angle CED = \frac{66}{2} = 33^\circ$$

$$m\widehat{DEA} = \frac{192}{96 \times 2} = 192$$

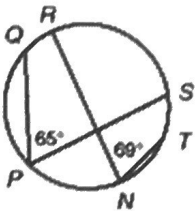
2.



$$m\angle FGI = \frac{18}{2} = 9^\circ$$

$$m\widehat{GH} = 39 \times 2 = 78^\circ$$

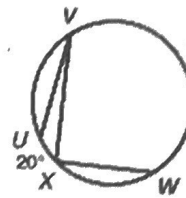
3.



$$m\widehat{QRS} = 65 \times 2 = 130^\circ$$

$$m\widehat{TSR} = 69 \times 2 = 138^\circ$$

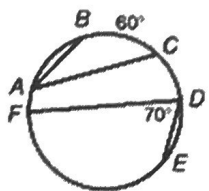
4.



$$m\angle XVU = \frac{20}{2} = 10^\circ$$

$$m\angle VXW = \frac{181}{2} = 90.5^\circ$$

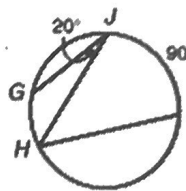
5.



$$m\angle BAC = \frac{60}{2} = 30^\circ$$

$$m\widehat{FE} = 70 \times 2 = 140^\circ$$

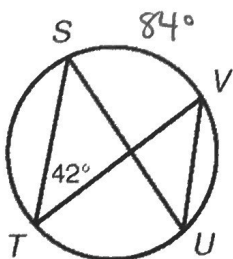
6.



$$m\angle IHJ = \frac{90}{2} = 45^\circ$$

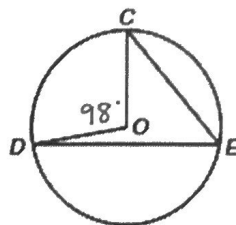
$$m\widehat{GH} = 20 \times 2 = 40^\circ$$

7.



$$m\angle VUS = 42^\circ$$

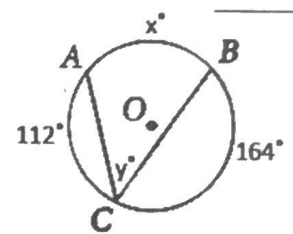
8.



$$m\angle COD = 98^\circ$$

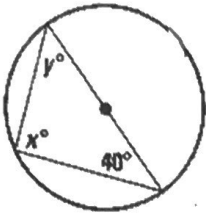
$$m\angle CED = 49^\circ$$

9.

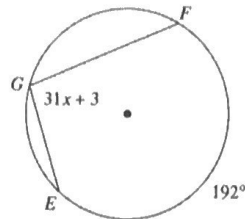


$$x = 84^\circ \quad y = 42^\circ$$

10.

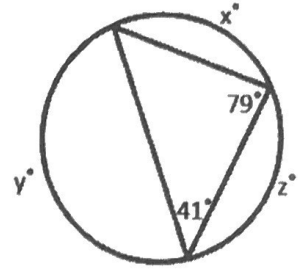


$x = \underline{90^\circ}$   $y = \underline{50^\circ}$



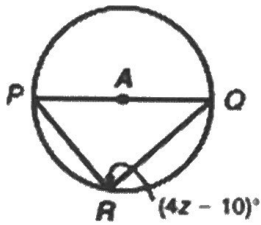
$31x + 3 = 96$   
 $31x = 93$   
 $x = \underline{3}$

11.  
12.



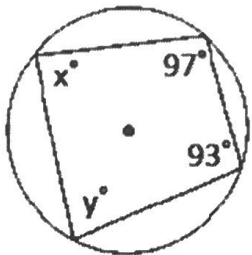
$x = \underline{82^\circ}$   $y = \underline{158^\circ}$   $z = \underline{120^\circ}$   
 41(z)      79(z)

13. Solve for z:



$z = \underline{25}$   
 $4z - 10 = 90$   
 $4z = 100$   
 $z = 25$

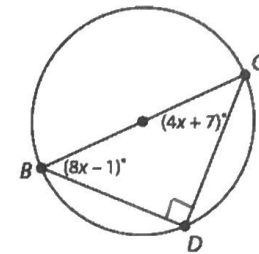
15. Solve for x and y.



$x + 93 = 180$   
 $y + 97 = 180$

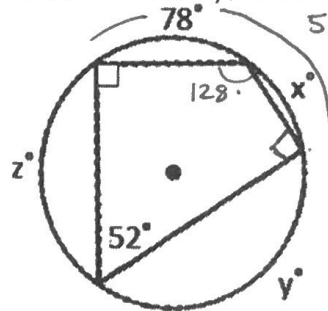
$x = \underline{87^\circ}$   $y = \underline{83^\circ}$

14. Solve for x:



$x = \underline{7}$   
 $8x - 1 + 7 + 4x = 90$   
 $12x + 6 = 90$   
 $12x = 84$

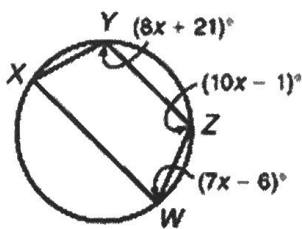
16. Solve for x, y, and z.



$x = \underline{26^\circ}$   $y = \underline{154^\circ}$   $z = \underline{102^\circ}$

$52(2) = 104$

17.



$m\angle X = \underline{71^\circ}$   
 $m\angle Y = \underline{109^\circ}$   
 $m\angle Z = \underline{109^\circ}$   
 $m\angle W = \underline{71^\circ}$

$8x + 21 + 7x - 6 = 180$   
 $15x + 15 = 180$   
 $15x = 165$   
 $x = 11$