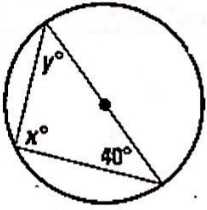


Day 4 - Circumscribed Angles & Inscribed Polygons - Practice

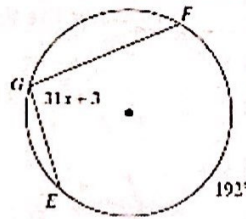
Find the value of the given variables:

1.



$x = 90^\circ$ $y = 50^\circ$

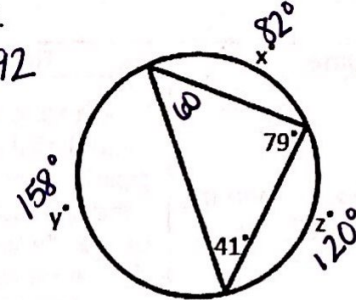
2.



$x = 3$

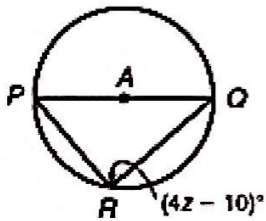
3.

$31x + 3 = \frac{1}{2} \cdot 192$
 $31x + 3 = 96$
 $31x = 93$
 $x = 3$



$x = 82^\circ$ $y = 158^\circ$ $z = 120^\circ$

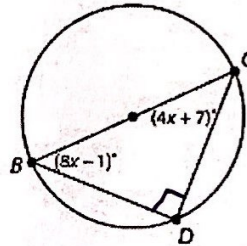
4. Solve for z:



$4z - 10 = 90$
 $4z = 100$
 $z = 25$

$z = 25$

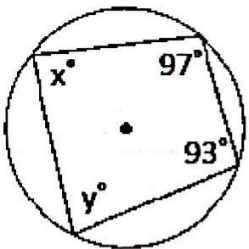
5. Solve for x:



$4x + 7 + 8x - 1 + 90 = 180$
 $12x + 96 = 180$
 $12x = 84$
 $x = 7$

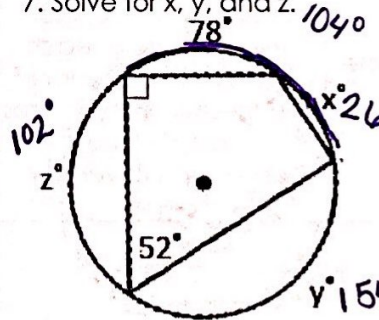
$x = 7$

6. Solve for x and y.



$x = 87^\circ$ $y = 83^\circ$

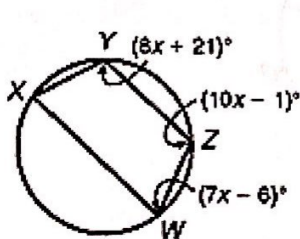
7. Solve for x, y, and z.



$x = 26^\circ$ $y = 154^\circ$ $z = 102^\circ$

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

8.



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