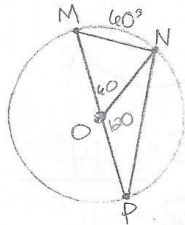


Angles and Arcs

Name: _____

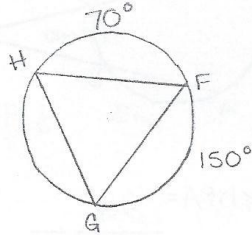
1.



$$m\angle NOP = \underline{120^\circ}$$

$$m\angle NPO = \underline{30^\circ}$$

2.

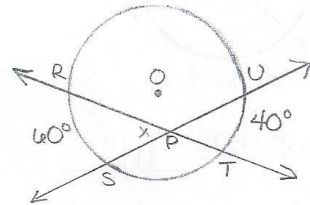


$$m\angle F = \underline{70}$$

$$m\angle G = \underline{35^\circ}$$

$$m\angle H = \underline{75^\circ}$$

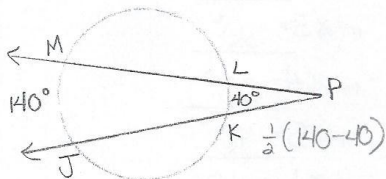
3.



$$m\angle RPS = \underline{50^\circ}$$

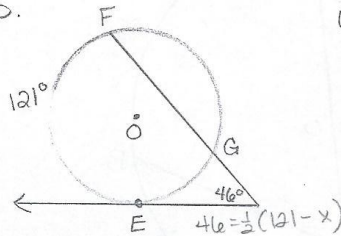
$$\frac{1}{2}(60+40)$$

4.



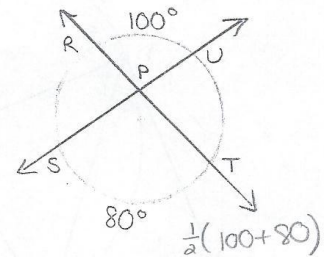
$$m\angle MPJ = \underline{50^\circ}$$

5.



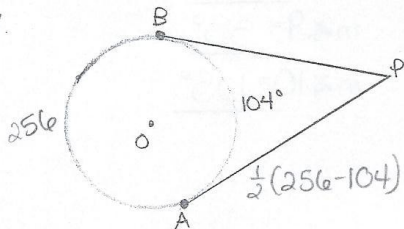
$$m\widehat{GE} = \underline{29^\circ}$$

6.



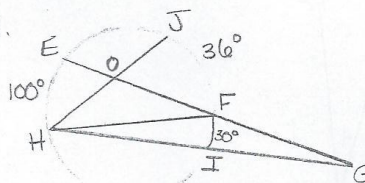
$$m\angle RPU = \underline{90^\circ}$$

7.



$$m\angle APB = \underline{76^\circ}$$

8.



$$m\angle EFH = \underline{50^\circ}$$

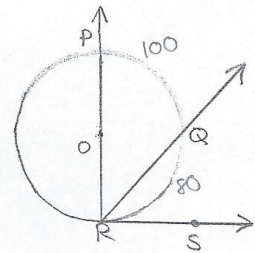
$$m\angle FHG = \underline{15^\circ}$$

$$m\angle G = \underline{35^\circ} \quad \frac{1}{2}(100-30)$$

$$m\angle OHF = \underline{18^\circ}$$

$$m\angle ECH = \underline{68^\circ} \quad \frac{1}{2}(100+36)$$

9.



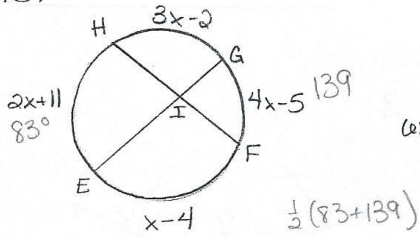
$$m\widehat{PRQ} = \underline{260^\circ}$$

$$m\angle PRQ = \underline{50^\circ}$$

$$m\angle PRS = \underline{90^\circ}$$

$$m\widehat{RQ} = \underline{40^\circ} \quad \frac{1}{2}(80)$$

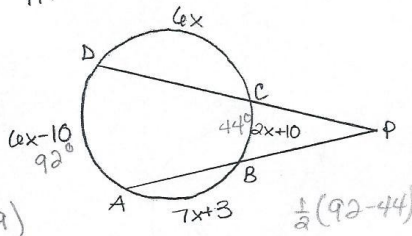
10.



$m \angle HIE = \underline{111^\circ}$

$10x = 360$
 $x = 36$

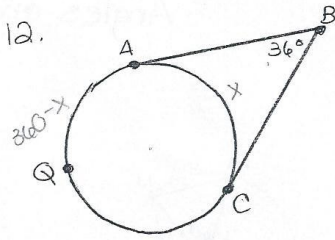
11.



$m \angle DPA = \underline{24^\circ}$

$21x + 3 = 360$
 $21x = 357$
 $x = 17$

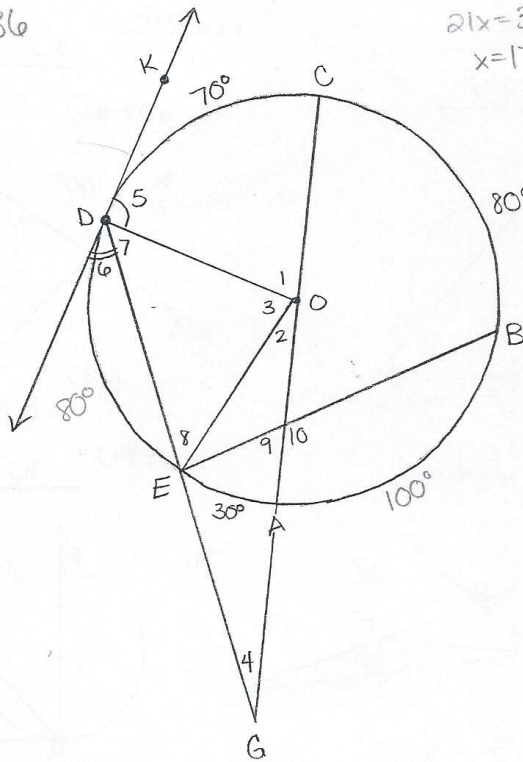
12.



$m \widehat{AC} = \underline{144^\circ}$

$m \widehat{AQC} = \underline{216^\circ}$

$\frac{1}{2}(360 - x - x) = 36^\circ$
 $360 - 2x = 72$



- $m \angle 1 = \underline{70^\circ}$
- $m \angle 2 = \underline{30^\circ}$
- $m \angle 3 = \underline{80^\circ}$
- $m \angle 4 = \underline{20^\circ}$
- $m \angle 5 = \underline{90^\circ}$
- $m \angle 6 = \underline{40^\circ}$
- $m \angle 7 = \underline{50^\circ}$
- $m \angle 8 = \underline{50^\circ}$
- $m \angle 9 = \underline{55^\circ}$
- $m \angle 10 = \underline{125^\circ}$