

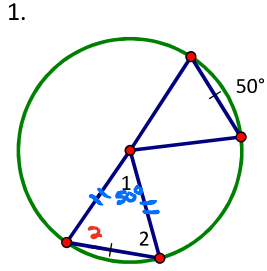
Circles – Inscribed Angles

G.C.A.2

Hw Section 13.3

Name _____

Find the measure of each numbered angle or arc.

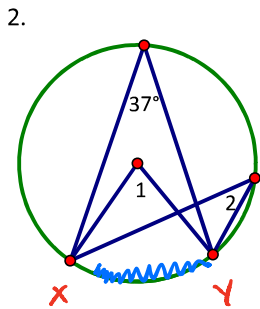


$$m\angle 1 = 50^\circ$$

$$m\angle 2 + m\angle 2 + 50^\circ = 180^\circ$$

$$2m\angle 2 = 130$$

$$m\angle 2 = 65^\circ$$

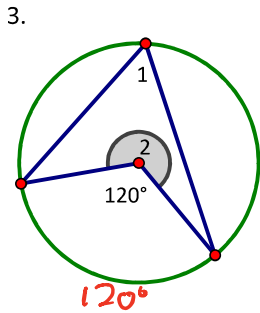


$$m\angle 2 = 37^\circ$$

$$37^\circ = \frac{1}{2} m\widehat{XY}$$

$$74 = m\widehat{XY}$$

$$m\angle 1 = 74^\circ$$

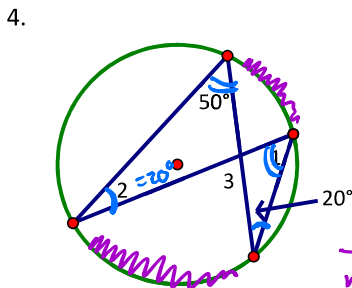


$$m\angle 2 + 120^\circ = 360^\circ$$

$$m\angle 2 = 240^\circ$$

$$m\angle 1 = \frac{1}{2} (120^\circ)$$

$$m\angle 1 = 60^\circ$$



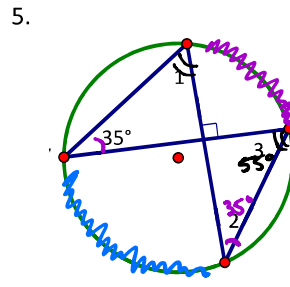
$$m\angle 1 = 50^\circ$$

$$m\angle 2 = 20^\circ$$

$$\text{Ext } \angle \text{Th'm}$$

$$m\angle 3 = 20^\circ + 50^\circ$$

$$m\angle 3 = 70^\circ$$



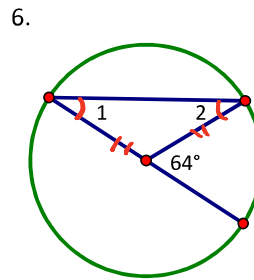
$$m\angle 2 = 35^\circ$$

$$\text{Ext } \angle \text{Th'm}$$

$$35^\circ + m\angle 3 = 90^\circ$$

$$m\angle 3 = 55^\circ$$

$$m\angle 1 = 55^\circ$$



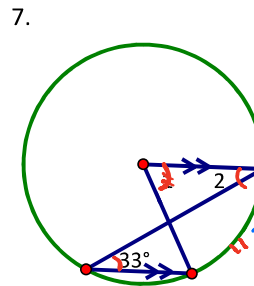
$$\text{Ext } \angle \text{Th'm}$$

$$m\angle 1 + m\angle 1 = 64^\circ$$

$$2m\angle 1 = 64^\circ$$

$$m\angle 1 = 32^\circ$$

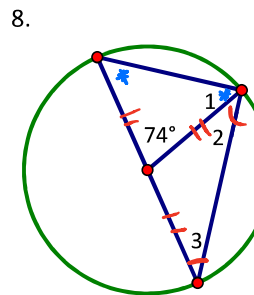
$$m\angle 2 = 32^\circ$$



$$\text{Alt Int } \angle \text{'s Th'm}$$

$$m\angle 2 = 33^\circ$$

$$m\angle 1 = 66^\circ$$



$$\text{Ext } \angle \text{Th'm}$$

$$m\angle 2 + m\angle 2 = 74^\circ$$

$$2m\angle 2 = 74^\circ$$

$$m\angle 2 = 37^\circ$$

$$m\angle 3 = 37^\circ$$

$$m\angle 1 + m\angle 1 + 74 = 180^\circ$$

$$2m\angle 1 + 74 = 180^\circ$$

$$2m\angle 1 = 106^\circ$$

$$m\angle 1 = 53^\circ$$

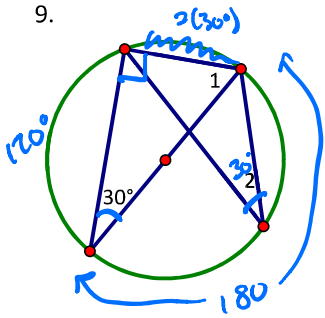
Circles – Inscribed Angles

G.C.A.2

Hw Section 13.3

Name _____

9.

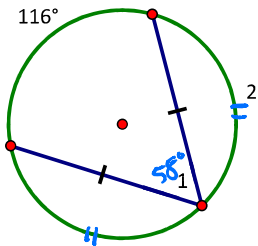


$$m\angle 1 = \frac{1}{2}(120^\circ)$$

$$m\angle 1 = 60^\circ$$

$$m\angle 2 = 30^\circ$$

10.



$$m\angle 1 = \frac{1}{2}(116^\circ)$$

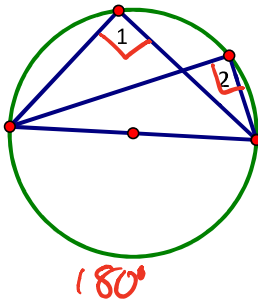
$$m\angle 1 = 58^\circ$$

$$m\widehat{1} + m\widehat{2} + 116^\circ = 360^\circ$$

$$2m\widehat{1} = 244^\circ$$

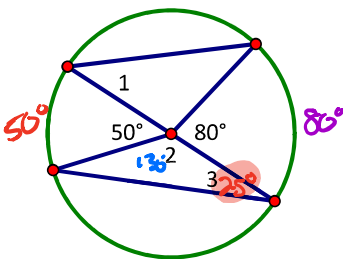
$$m\widehat{1} = 122^\circ$$

11.



$$m\angle 1 = m\angle 2 = 90^\circ$$

12.



$$m\angle 3 = 25^\circ$$

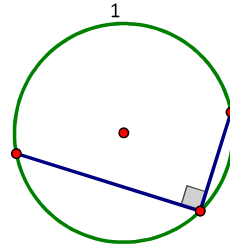
$$m\angle 2 + 50^\circ = 180^\circ$$

$$m\angle 2 = 130^\circ$$

$$m\angle 1 = \frac{1}{2}(80^\circ)$$

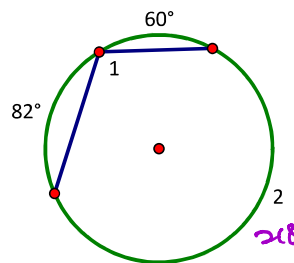
$$m\angle 1 = 40^\circ$$

13.



$$m\widehat{1} = 180^\circ$$

14.



$$82^\circ + 60^\circ + m\widehat{2} = 360^\circ$$

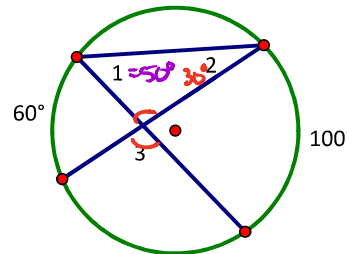
$$142^\circ + m\widehat{2} = 360^\circ$$

$$m\angle 2 = 218^\circ$$

$$m\widehat{1} = \frac{1}{2}(218^\circ)$$

$$m\widehat{1} = 109^\circ$$

15.



$$m\angle 1 = \frac{1}{2}(100^\circ)$$

$$m\angle 1 = 50^\circ$$

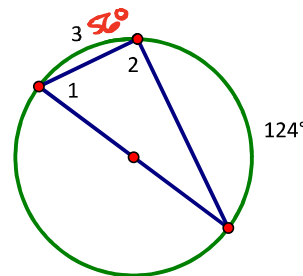
$$m\angle 2 = \frac{1}{2}(60^\circ)$$

$$m\angle 2 = 30^\circ$$

$$50^\circ + 30^\circ + m\angle 3 = 180^\circ$$

$$m\angle 3 = 100^\circ$$

16.



$$m\widehat{3} + 124^\circ = 180^\circ$$

$$m\widehat{3} = 56^\circ$$

$$m\angle 1 = \frac{1}{2}(124^\circ)$$

$$m\angle 1 = 62^\circ$$

$$m\angle 2 = 90^\circ$$