SM2 9.7: Interior Angles



Use the figure above to answer questions 1 through 10:

- 1) What is the name of the circle? $\bigcirc A$
- 3) Which marked angles are inscribed angles?

∠2,∠4

- 5) What is the name of each chord of the circle shown in the figure? *EF*, *BC*, *CF*
- 7) Which marked angle pairs must be supplementary?
 ∠3 and ∠6

 $\angle 3$ and $\angle 7$

- 9) Is the arc intercepted by ∠4 minor, major, or semicircular? minor
- 11) Which marked angles are congruent? $\angle 1 \cong \angle 5$

- 2) Which marked angles are central angles? $\angle 3, \angle 6$
- 4) Which marked angles are interior angles but not central angles?
 ∠1, ∠5
- 6) Which marked angles are circumscribed angles?

∠7

- 8) Which marked angle intercepts *EC*? $\angle 2$
- 10) Is the angle that intercepts CF a central angle, inscribed angle, cirucmscribed angle or interior angle? interior
- 12) What is the measure of $\angle ADG$? 90°

chard of the

Find the indicated measures.















23)
$$x = 7^{\circ}$$

10x-9
34°
x



25) $m \angle x = 126^{\circ} \quad m \angle y = 54^{\circ}$ 112° 26) $m \angle HEC = 28^{\circ}$ $m \angle TEH = 34^{\circ}$ $m \angle HCE = 90^{\circ}$ $m \angle CHE = 62^{\circ}$ $m \angle TGH = 68^{\circ}$ $m \angle TGE = 112^{\circ}$ $m \angle TCE = 56^{\circ}$ $mTH = 68^{\circ}$ $mTEH = 292^{\circ}$

