### Diagrams are not drawn to scale!

1) Given: Circle O with diameter AC.

 $\overrightarrow{DI}$  and  $\overrightarrow{HG}$  are tangents

$$mBD = 100$$

$$AB \cong CD$$

$$mEG = 20$$

$$\overline{AF} \cong \overline{CF}$$



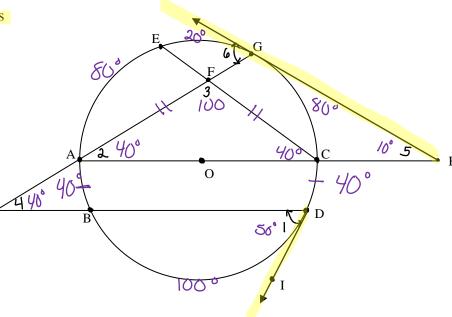
$$m\angle 1 = 50$$

$$m \angle 2 = \frac{10}{100}$$

$$m\angle 4 = \frac{40}{40} = \frac{2}{\text{GD}} - \frac{2}{\text{AB}}$$

$$m \angle 4 = 10 = GD - AB$$

$$m\angle 6 = \frac{50}{50}$$



2) Given: Circle O with diameter EC = 12  $\overrightarrow{H}$ 

$$\overrightarrow{JI}$$
 tangent at point C

$$m\angle BCE = 60$$

$$EG: GB = 2:1$$

$$ED\cong BC$$

Find:  

$$m \angle 1 = \underline{40} = \underline{cD - 30}$$

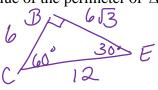
$$m \angle 2 = \underline{90}$$

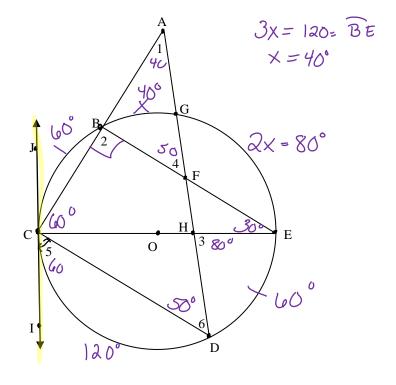
$$m \angle 3 = \underline{80} = \underline{ED + G}$$

$$m \angle 4 = \underline{50} = \underline{BG + DE}$$

$$m\angle 5 = 60 \ge 2$$

Exact value of the perimeter of 
$$\triangle CEB$$





# Accelerated Geometry 10.5 Practice

## Name\_\_\_\_\_\_ Date\_\_\_\_\_\_

### 3) Given: Circle O.

 $\overrightarrow{CB}$  and  $\overrightarrow{CH}$  are tangents

$$m\angle 2 = 5$$

$$m \angle 1 = 15$$

$$DF \cong EB$$

$$EG \cong FH$$

$$mEG = -2x^2 - 42x - 28$$

$$mFH = 3x^2 + 47x - 46$$

#### Find:

$$m\angle 4 =$$
\_\_\_\_\_

