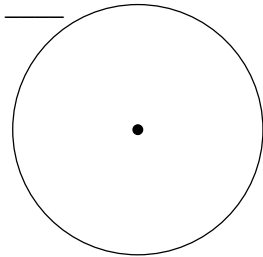
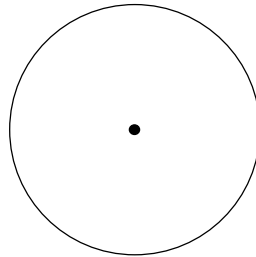
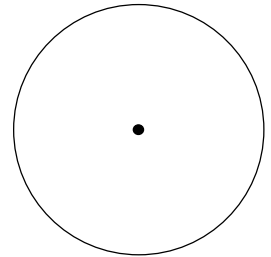
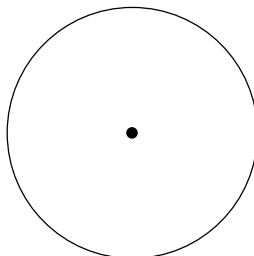


Name _____ Per _____

LO: I can solve problems involving inscribed angles and intercepted arcs.

 DO NOW On the back of this packet (1) **Inscribed Angles**Draw a diagram of **Inscribed Angles BDC** based on the description of an inscribed angle below:

Description: An angle formed by 3 points on a circle, one of which is the vertex of the angle.

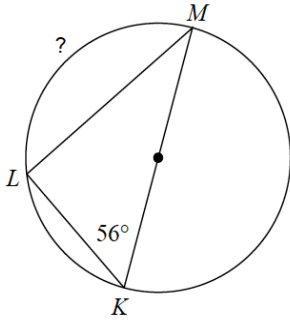
Inscribed Angles on SchoolYourself.org https://schoolyourself.org/learn/geometry/inscribed_angle (2) Complete a sketch for each example. Be sure to label the arc measure, the central angle measure, and the inscribed angle measure. (a) An intercepted arc measures 50° . Therefore, the central angle measures _____ and the inscribed angle measures _____ (b) A central angle measures 88° . Therefore, the intercepted arc measures _____ and the inscribed angle measures _____ (c) An inscribed angle measures 88° . Therefore, the intercepted arc measures _____ and the central angle measures _____ (d) Write a sentence that summarizes the relationship between the measure of an **inscribed angle** a **central angle** and the **arc** that both angles intercept. Include a labeled diagram and an equation showing the relationship._____
_____

Equation: _____

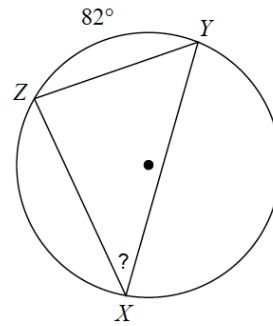
□ (3) **Using the relationship between inscribed angles and intercepted arcs**

Find the indicated measure for each diagram. Highlighting arcs and angles can be helpful.

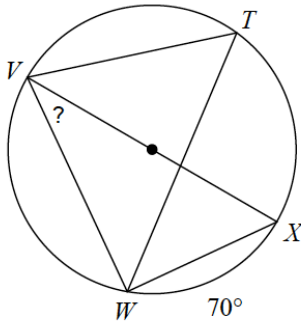
(a)



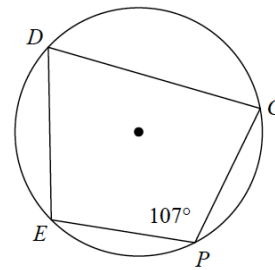
(b)



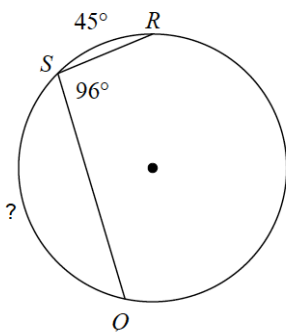
(c)



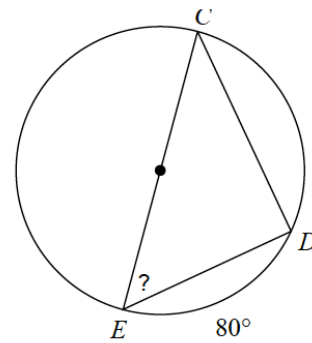
(d) Find $m\widehat{EDC}$



(e)



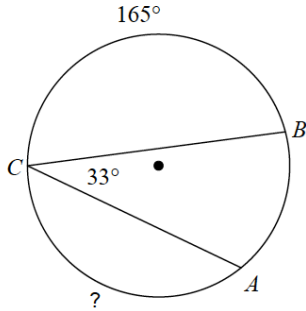
(f)



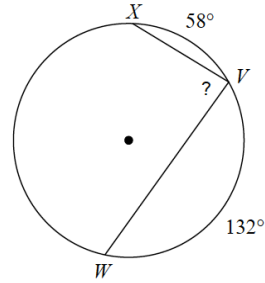
(4) Using the relationship between central angles and intercepted arcs

Solve for the indicated measure. Assume that lines which appear to be diameters are actual diameters.

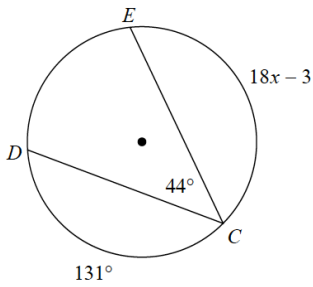
(a) x



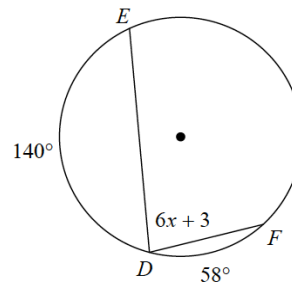
(b) x



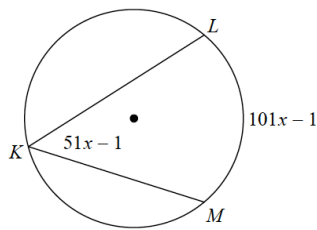
(b) x



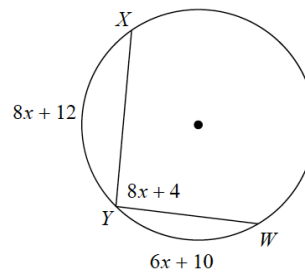
(d) x



(e) Find $m\angle LKM$



(f) Find $m\widehat{YW}$



(5)
calculator

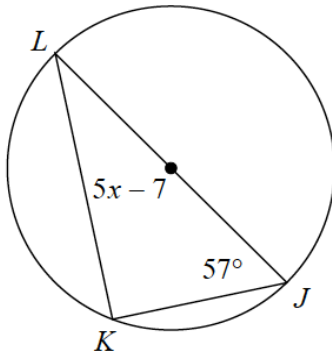
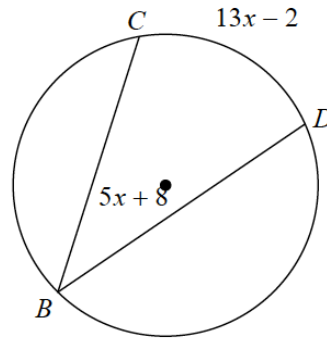
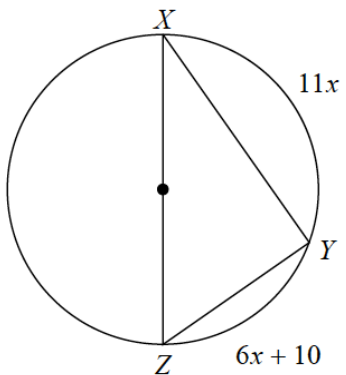
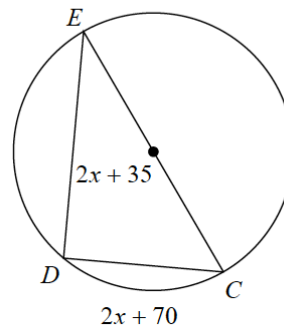
Exit Ticket

ON THE LAST PAGE

(6)
calculator

Homework

(1) Find the measure of the indicated variable. Show sufficient evidence for your answer.

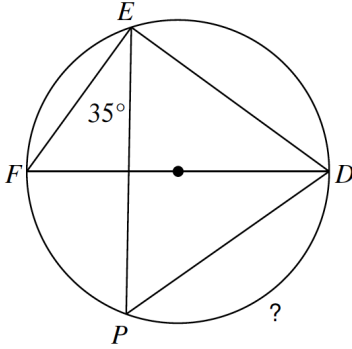
(a) Find x (b) Find x (c) Find $m\widehat{YZ}$ (d) Find $m\angle CED$ 

Exit Ticket Name _____ Date _____ Per _____ 10.2R

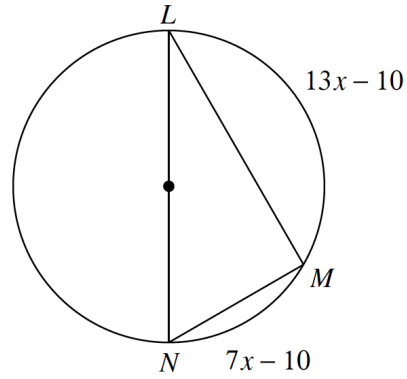
The LO (Learning Outcomes) are written below your name on the front of this packet. Demonstrate your achievement of these outcomes by doing the following:

(1) Find the indicated measure(s) for each diagram.

(a) $m\widehat{FP} = \underline{\hspace{2cm}}$ $m\widehat{PD} = \underline{\hspace{2cm}}$



(b) Find $m\angle NLM$



(1) In the space below, draw a circle, then:

Draw circle O with 3 central angles.

Label the central angle and the intercepted arc with reasonable degree measures based on your drawing.

(2) REVIEW: Find the measure of angle d

