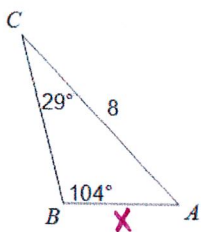


Name \_\_\_\_\_

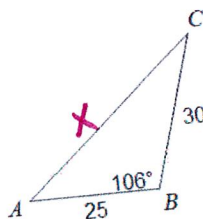
Sem 2 TH #9

1. Use the law of sines to solve for x:



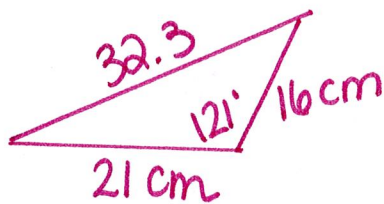
$$\frac{a}{\sin A} = \frac{b}{\sin B}$$

2. Use the law of cosines to solve for x:



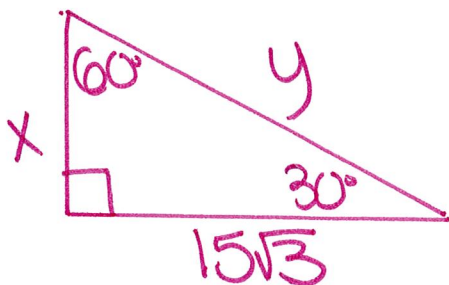
$$x^2 = a^2 + c^2 - 2ac(\cos B)$$

3. Find the area of the triangle (Area =  $\frac{1}{2}(b)(c)(\sin A)$ )

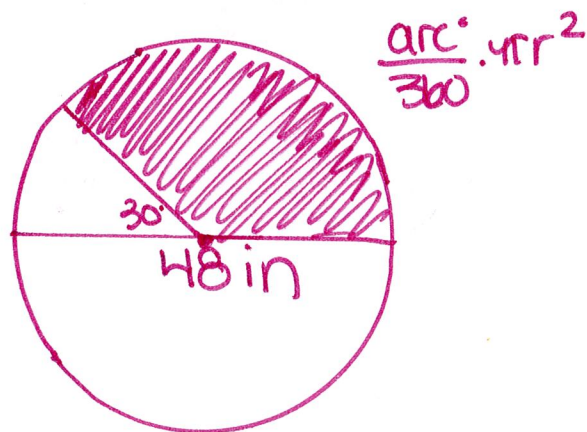


4.  $\sin 56^\circ = \cos$  \_\_\_\_\_

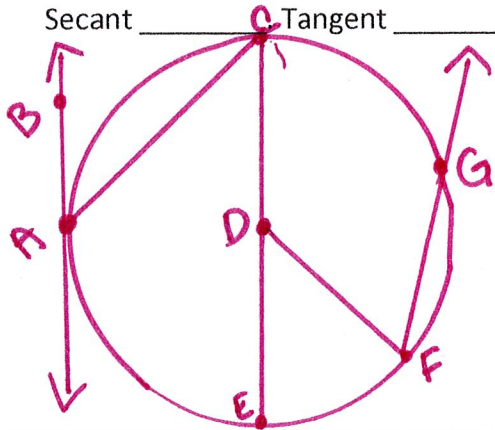
5.  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_



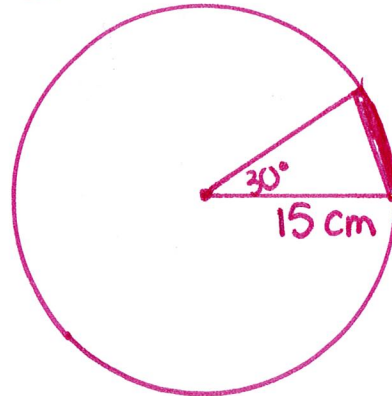
6. Find the area of the shaded sector:



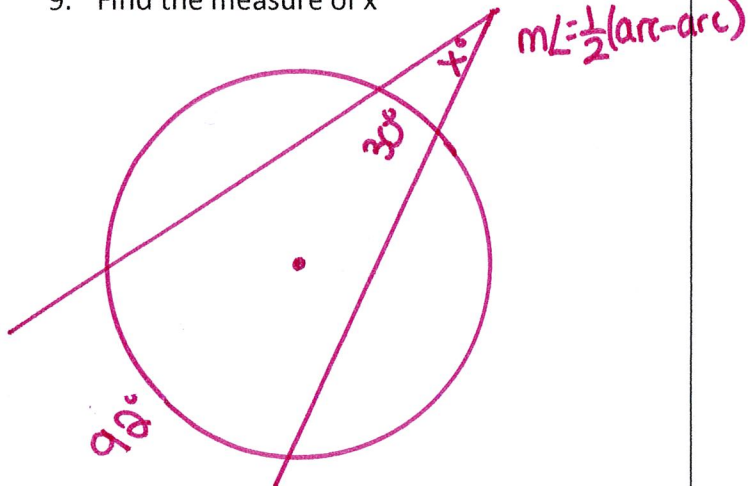
7. Name each special segment:  
 Radius \_\_\_\_\_ Diameter \_\_\_\_\_  
 Secant \_\_\_\_\_ Tangent \_\_\_\_\_



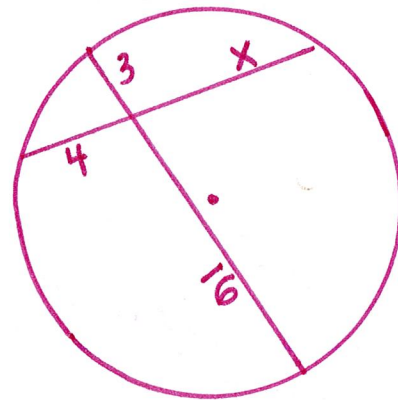
8. Find the area of the shaded segment  
*sector area - triangle area*



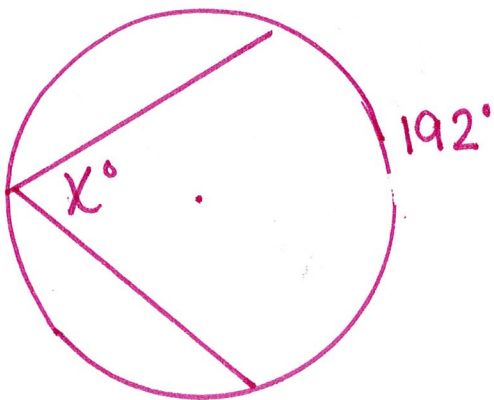
9. Find the measure of x



10. Find the measure of x



11. Find the measure of x



12. Lily bakes a jumbo cookie and has a diameter of 16 inches. She cuts a slice that is  $60^\circ$ , and frosts only the edge. To the nearest tenth, what is the length of the frosting?