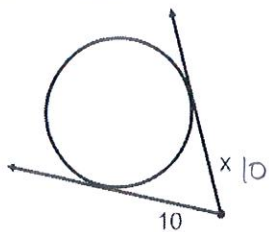


Geometry  
Homework: Line Segments (Tangents)

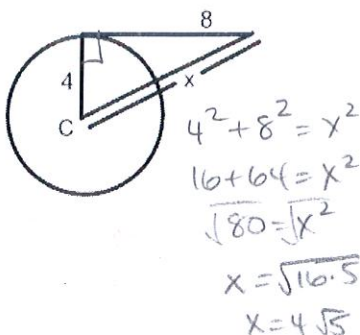
Name: Key  
Date: \_\_\_\_\_

Determine the value of each variable.

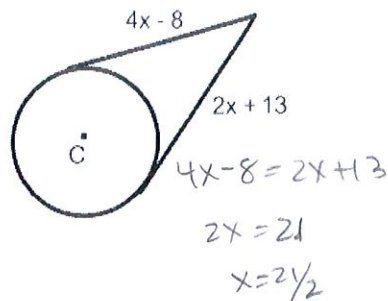
1.  $x = 10$



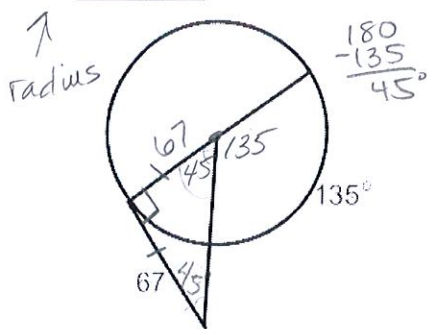
2.  $x = 4\sqrt{5}$



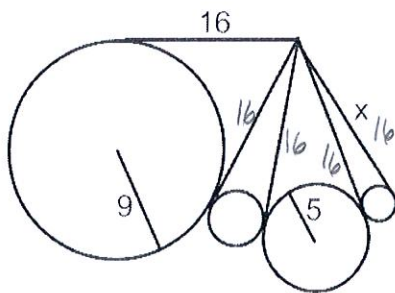
3.  $x = \frac{2y}{2} = 10,5$



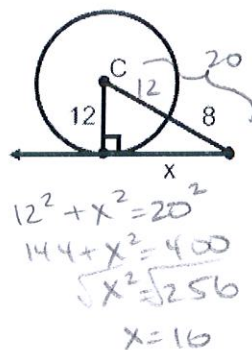
4.  $r = 67$



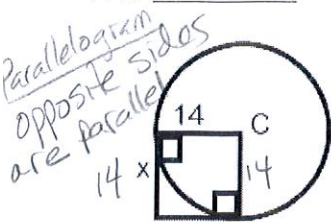
5.  $x = 16$



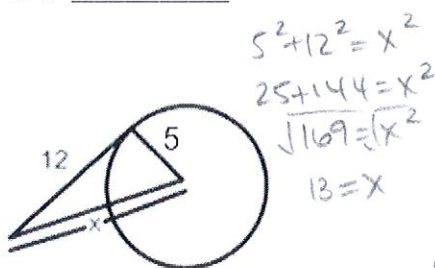
6.  $x = 16$



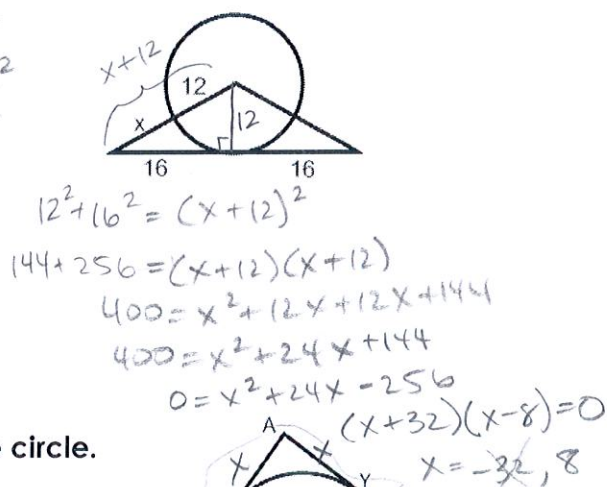
7.  $x =$  \_\_\_\_\_



8.  $x = 13$



9.  $x = 8$



In the figure at the right, triangle ABC is circumscribed about the circle.

10. Suppose the perimeter of Triangle ABC is 42,  $BX = 6$ ,  $CX = 7$ . Find AB and AC.

$$2x + 7(2) + 6(2) = 42$$

$$2x + 14 + 12 = 42$$

$$2x + 26 = 42$$

$$2x = 16$$

$$x = 8$$

AB  $6 + 8 = 14$   
AC  $7 + 8 = 15$

