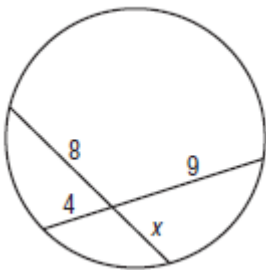
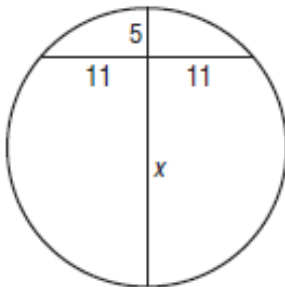


Find  $x$ . Assume that segments that appear to be tangent are tangent.

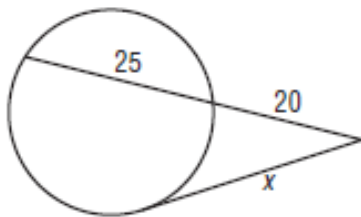
(1)



(2)



(3)

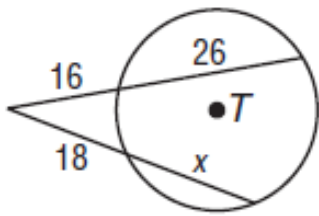


(4) **ARCHEOLOGY** Scientists unearthed part of a circular wall. They made the measurements shown in the figure.

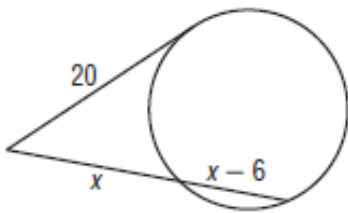


Based on the information in the figure, what was the radius of the circle?

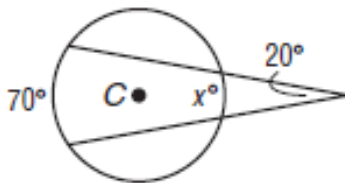
(5)



(6)



(7)



(8) Find the distance between the points  $(3, 5)$  and  $(-2, 9)$ .