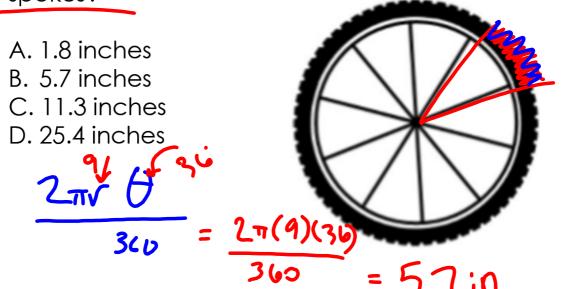
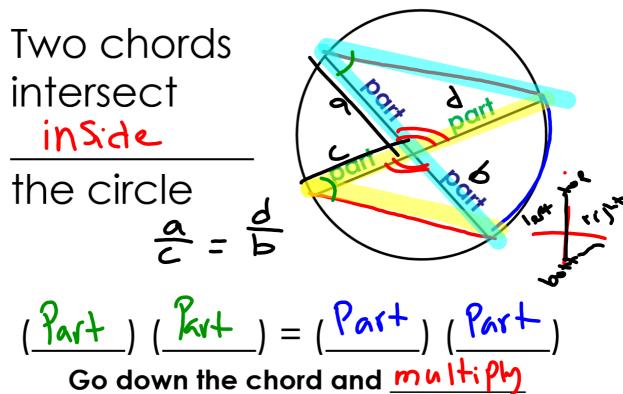


Determine if the segment AB is tangent to the circle.

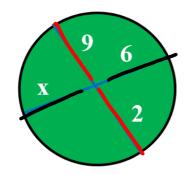
The spokes of a bicycle wheel form 10 congruent central angles. The diameter of the circle formed by the outer edge of the wheel is 18 inches. What is the length, to the nearest 0.1 inch, of the outer edge of the wheel between two consecutive spokes?



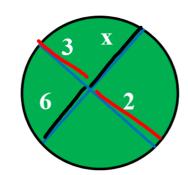
<u>Segment Lengths in Circles</u>



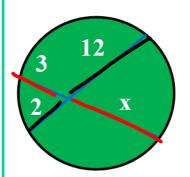




$$(0x = 9(2)$$

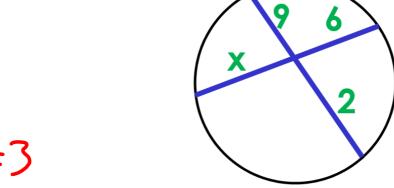


$$\frac{Gx = 3(2)}{6}$$



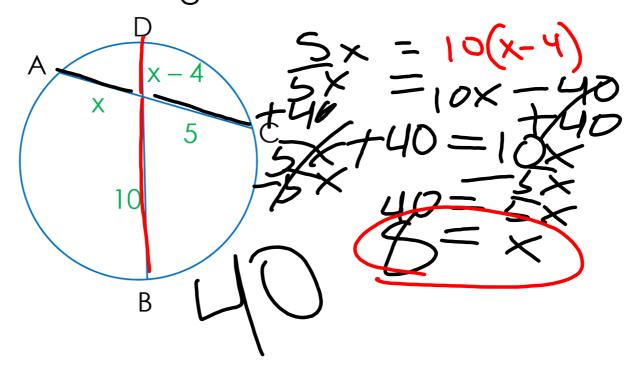
$$\frac{3x}{3} = 12(2)$$

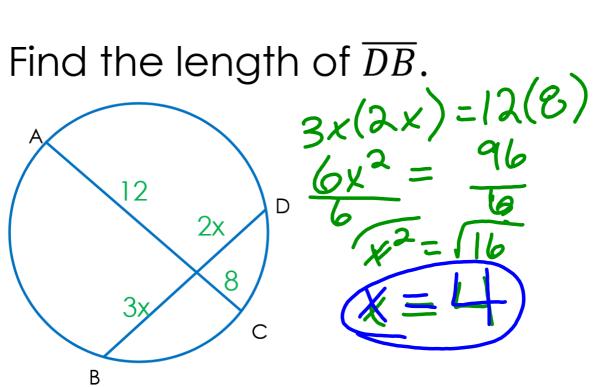
You try. Solve for x.





Find the length of AC and DB.





Name _ ID: 1 Assignment Date Period_ Solve for x. Assume that lines which appear tangent are tangent. 1) 2) 4) 3) 5) 6) 10 7) 8) 9) 10) 12 10

Geometry

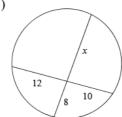
ID: 1 Name

Chords in Circles

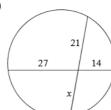
Date____ Period

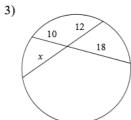
Solve for x. Assume that lines which appear tangent are tangent.

1)

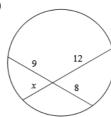


2)

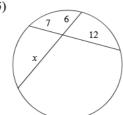




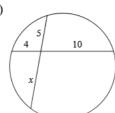
4)



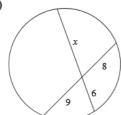
5)

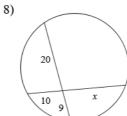


6)

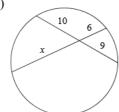


7)

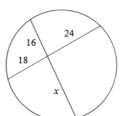




9)

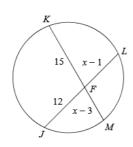


10)

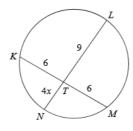


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

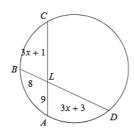
11) Find *FM*



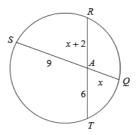
12) Find LN



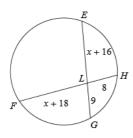
13) Find BD



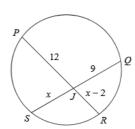
14) Find SQ



15) Find *LE*



16) Find JS



Answers to Chords in Circles (ID: 1)

1) 15 5) 14 9) 15

2) 18 6) 8 13) 26

10) 27 14) 13 3) 15 7) 12

11) 8 15) 16 4) 6

8) 18 12) 13 16) 8

Use the provided image to determine which of the following statements is NOT true.

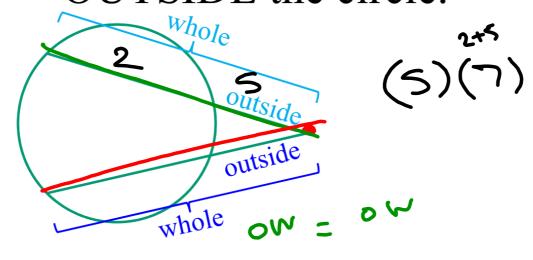
$$A. m\widehat{AB} = m\widehat{CD}$$

$$B. \widehat{AB} > \widehat{CD}$$

C.The two circles are similar.

D.The two circles are congruent.

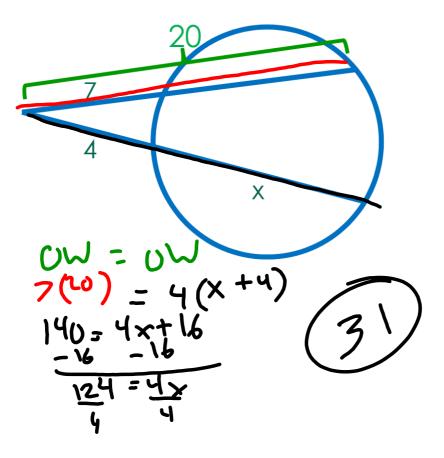
Two secants intersect OUTSIDE the circle.

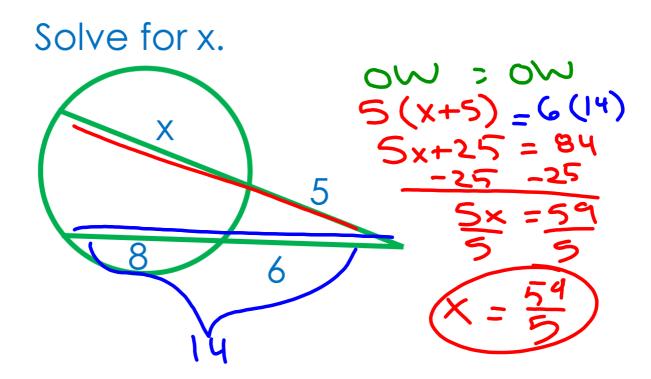


Out (Whole)= Out (Whole)

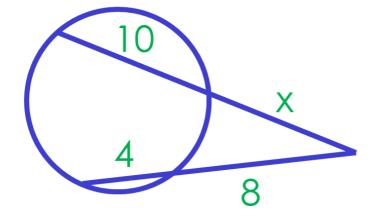
Sometimes you have to Add to get the whole.

Solve for x.

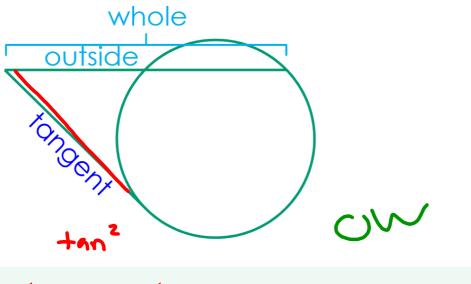


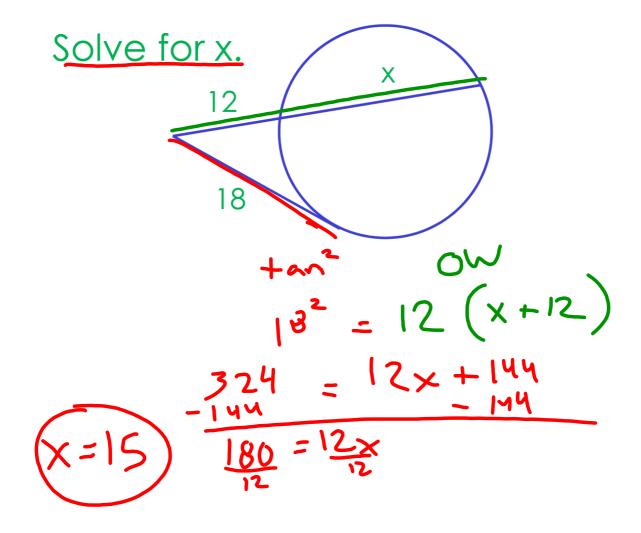


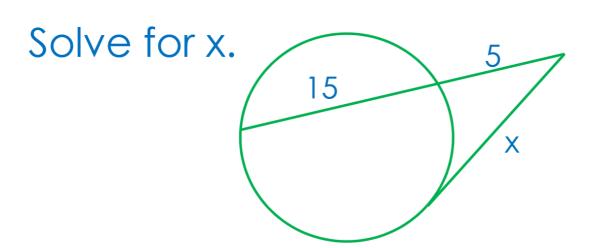
Solve for x.



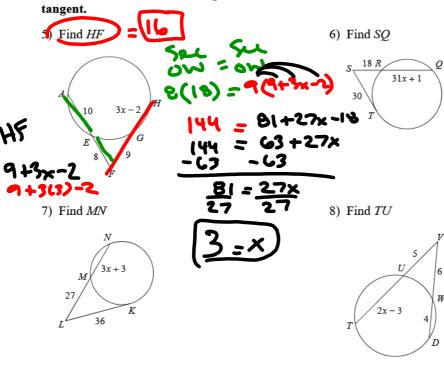
Tangent And Secant





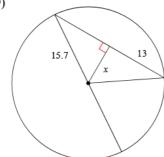


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

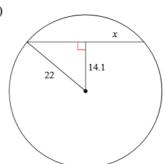


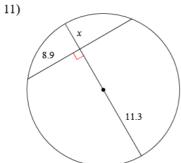
Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

9)

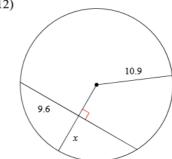


10)



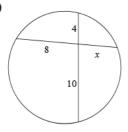


12)

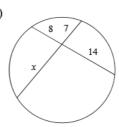


Solve for x. Assume that lines which appear tangent are tangent.

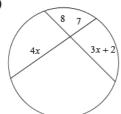
13)



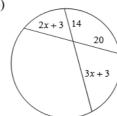
14)



15)



16)



Answers to Secants and Tangents (ID: 1)

1) 19 5) 16 9) 8.8

13) 5

2) 10 6) 50 10) 16.9 14) 16

3) 32 7) 21 11) 4.3 15) 4 4) 2 8) 7 12) 5.7 16) 9

-3.