

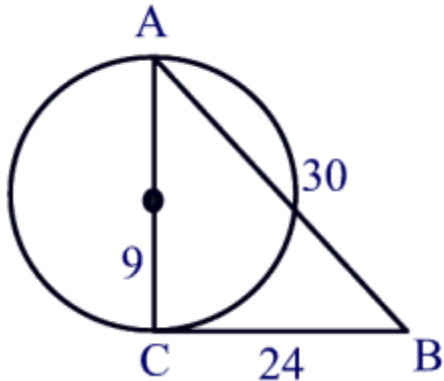
CHANGING NUMBERS

- Change the following number to **36** by moving the position of **only two lines**.

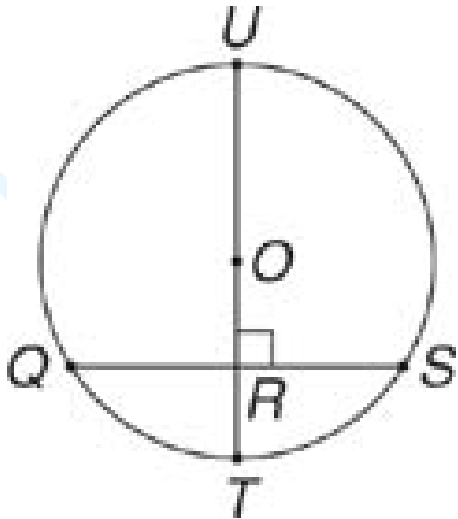
5 X 5

DO NOW: Answer the questions.

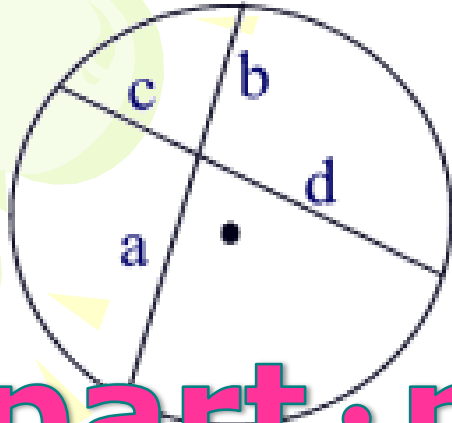
1. Is \overline{CB} a tangent? ($\overline{AB} = 30$)



2. $\overline{QS} = 8$, $\overline{OU} = 5$. Find \overline{RT} . (Tricky!)



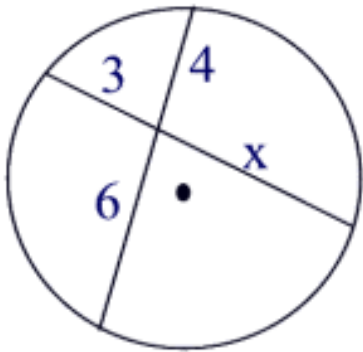
Chord Rule



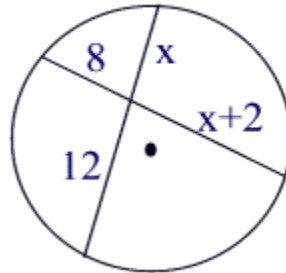
If two chords *intersect* in a circle, the products of their segments are

part · part = part · part

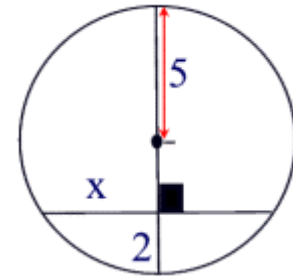
EXAMPLE: Find x.



NOW TRY THESE ON YOUR OWN: Find x.



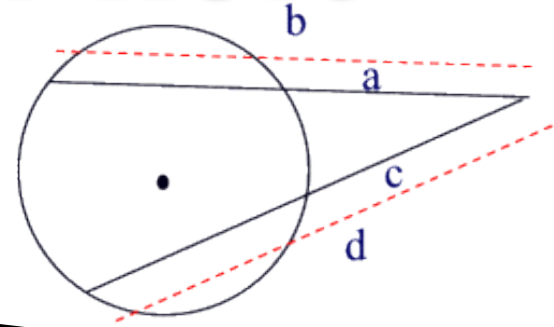
x=14



x=2

Secant Rule

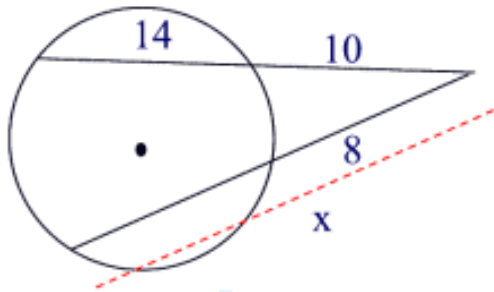
The product of one **whole secant** and its **outside part** is **EQ** to the product of the other **whole secant** and its **outside part**.
"WOWO" RULE
(whole • outside = whole • outside)



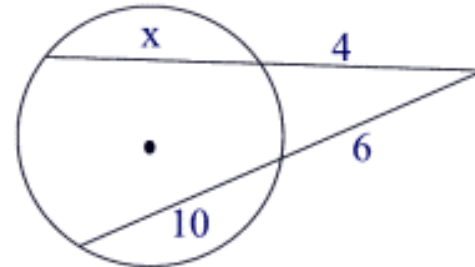
$$b \cdot a = d \cdot c$$

EXAMPLES: Find x.

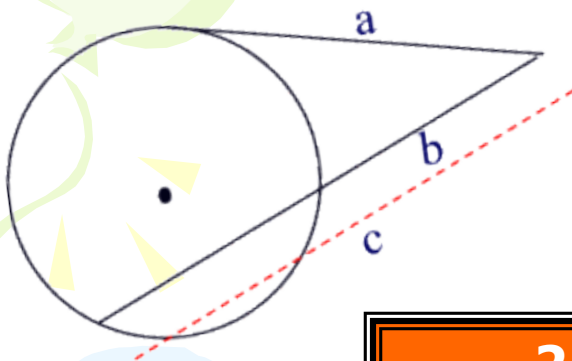
#1



#2



Tangent / Secant Rule

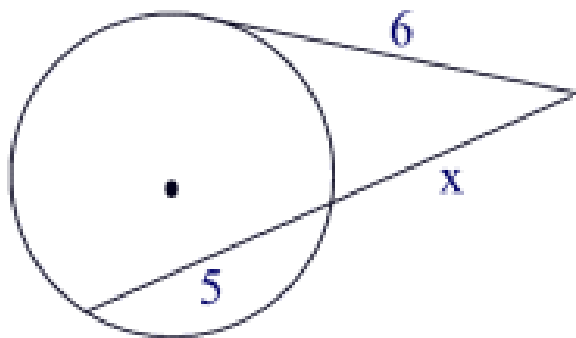


Because this rule involves **TWO** different special segments, you can think of this as the **EQUAL TO** the product of the **whole secant** and **outside part**.

"T² WO" RULE
 (TANGENT² = WHOLE • OUTSIDE)

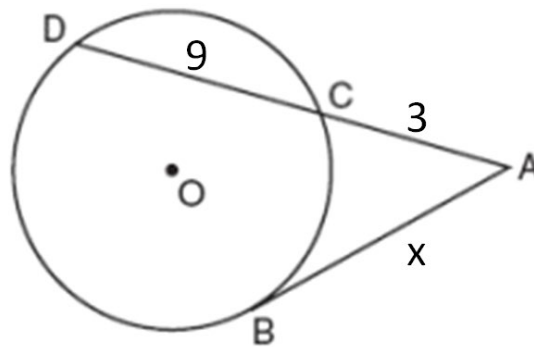
$$a^2 = c \cdot b$$

EXAMPLE: Find x.



#1

NOW YOU TRY THIS ONE: Find x.



#2



GOOD JOB!!!

- Remember, you will have a QUIZ over this material on FRIDAY...
- So be ready!

QUIZ ON FRIDAY!