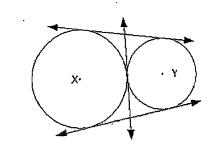
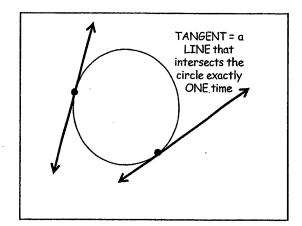
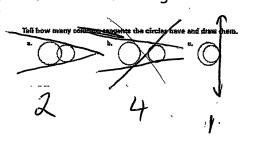
Ch. 10.5



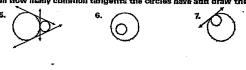


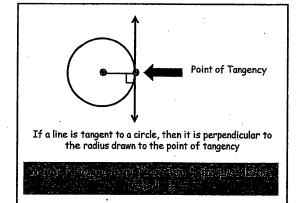


## Common Tangents



## YOUR TURN





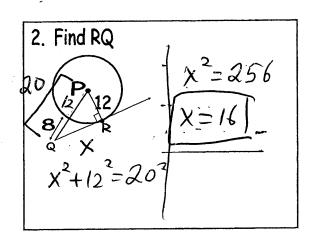
1. Find x

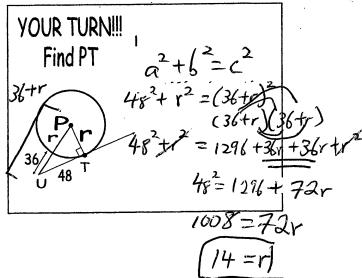
A 12

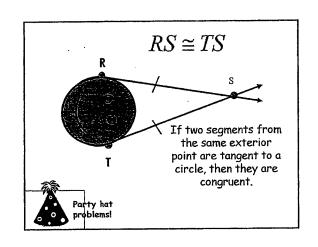
B

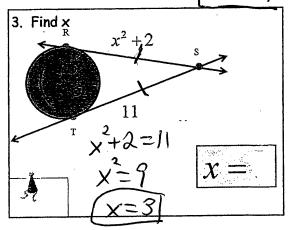
Y

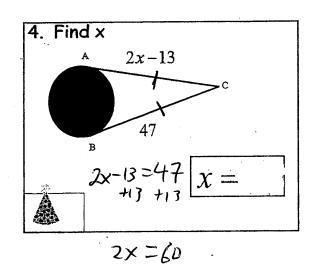
$$|eg^2 + eg^2 = hyp^2$$
 $|eg^2 + eg^2 = hyp^2$ 
 $|eg^2 + eg^2 = hyp^2$ 

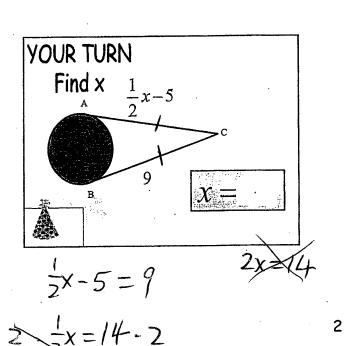




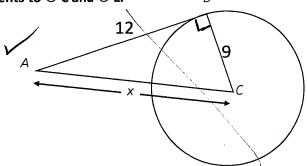




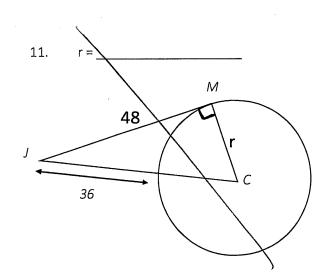




Examples: Segments AB, JK, and JM are tangents to ⊙ C and ⊙ L.

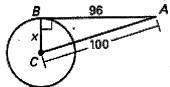


10. x =M



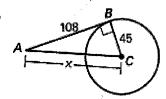
In Exercises 12-17,  $\overline{BC}$  is a radius of  $\odot C$  and  $\overline{AB}$  is tangent to  $\odot C$ . Find the value of x.

12.

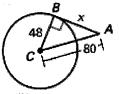


13.

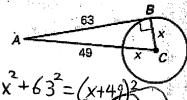
16.



**₫**₽.



**(15.)** 

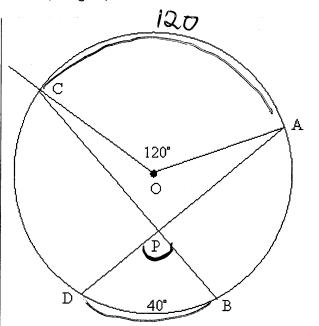


1568 = 98x

18. Find the following:

a) 
$$m\widehat{AC} = 120^{\circ}$$

b) 
$$m\angle BPD = \frac{1}{2}(40+120)$$

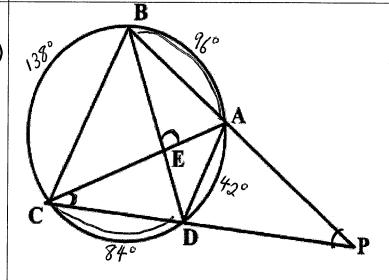


19. Find the following:

a) 
$$m \angle BPC = \frac{1}{2} (138 - 42) = \frac{1}{2} (96)$$

b) 
$$m \angle BEA = \frac{1}{2} \left( 96 + 84 \right)$$

c) 
$$m\angle ACD = \frac{1}{2}(42) = 21^{\circ}$$



20. Find the following:

a) 
$$X = SO^{0}$$

$$2.70 = \frac{1}{4}(w+120).2$$

$$140 = w+120$$

$$-120$$

$$20 = w$$

