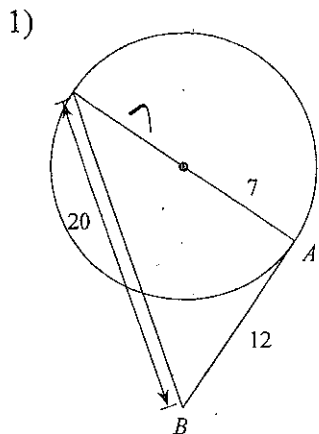


Tangents to Circles wkst 8.6

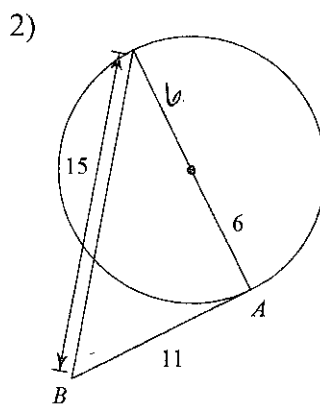
Determine if line AB is tangent to the circle.



$$14^2 + 12^2 = 20^2$$

$$340 \neq 400$$

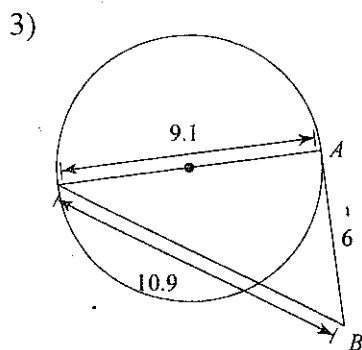
**NO**



$$12^2 + 11^2 = 15^2$$

$$265 \neq 225$$

**NO**

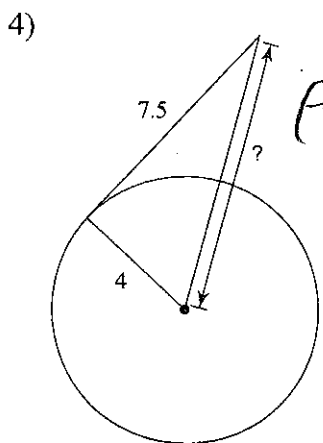


$$(9.1)^2 + 6^2 = (10.9)^2$$

$$118.81 = 118.81$$

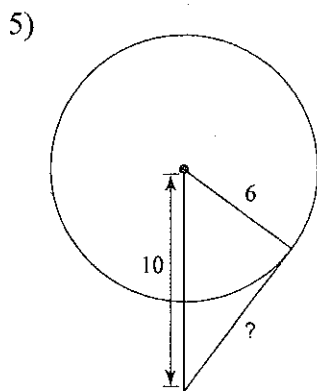
**YES**

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.



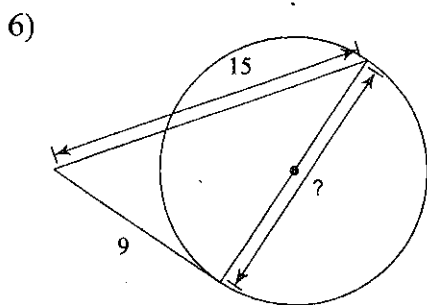
$$(7.5)^2 + 4^2 = c^2$$

**c = 8.5**



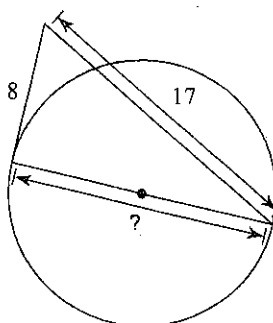
$$6^2 + x^2 = 10^2$$

**x = 8**



$$9^2 + x^2 = 15^2$$

**x = 12**

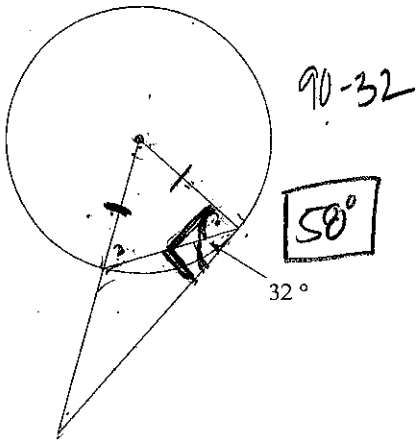


$$8^2 + x^2 = 17^2$$

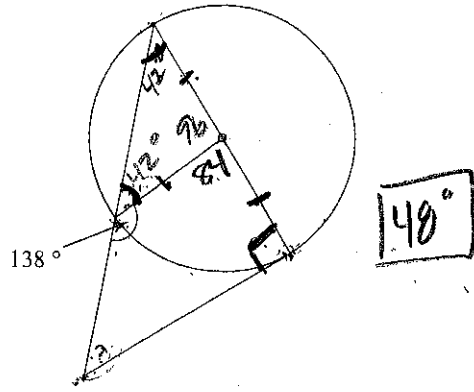
**x = 15**

and the angle measure indicated. Assume that lines which appear to be tangent are tangent.

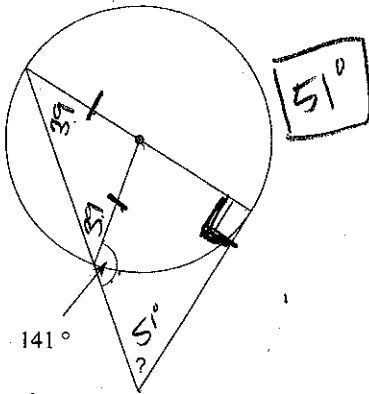
8)



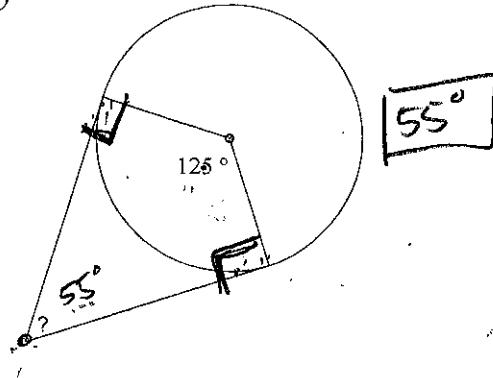
9)



10)

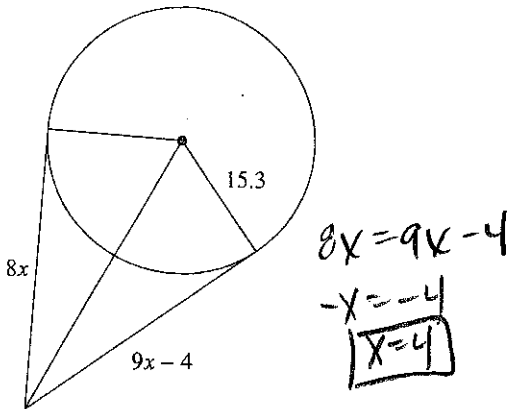


11)

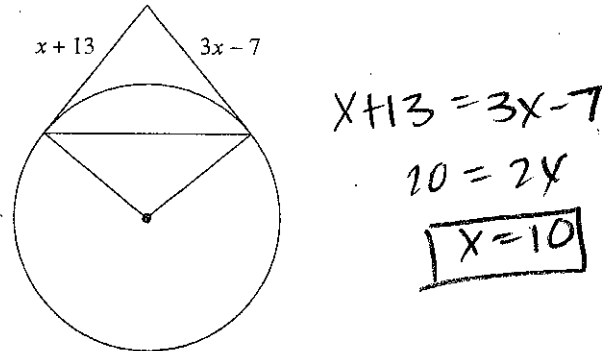


Solve for x. Assume that lines which appear to be tangent are tangent.

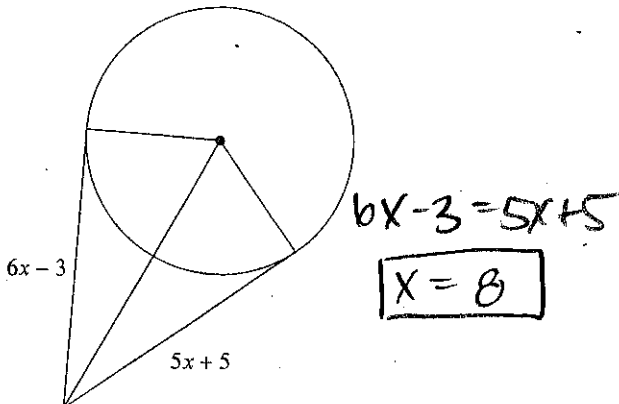
12)



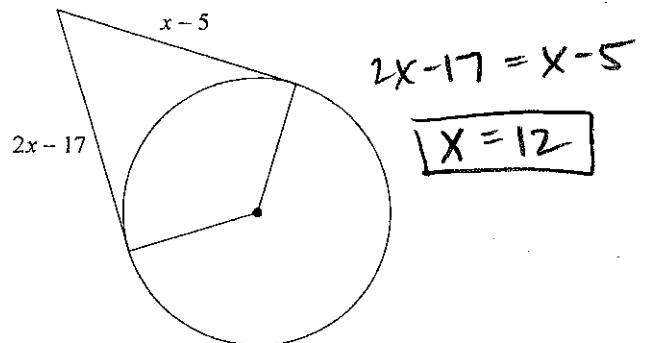
13)



14)



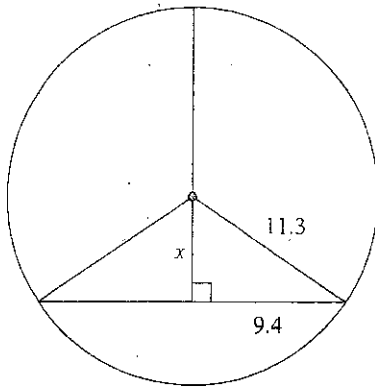
15)



Properties of Chords wkst 8.2

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

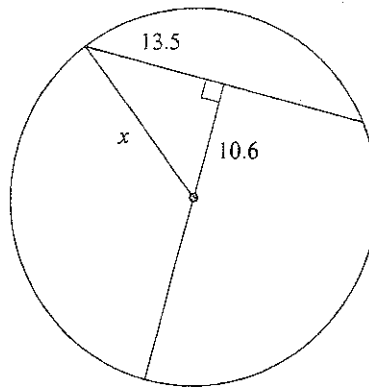
1)



$$x^2 + 9.4^2 = 11.3^2$$

$$x \approx 6.2$$

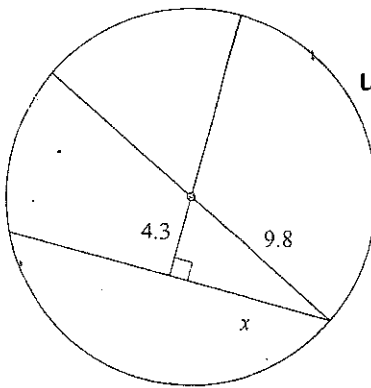
2)



$$13.5^2 + 10.6^2 = x^2$$

$$x \approx 17.2$$

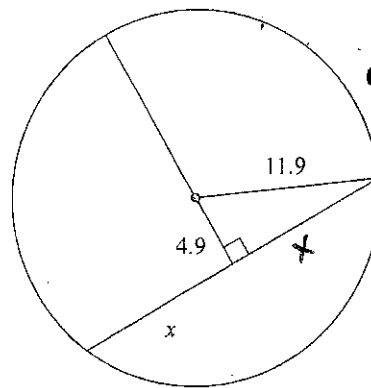
3)



$$4.3^2 + x^2 = 9.8^2$$

$$x \approx 8.8$$

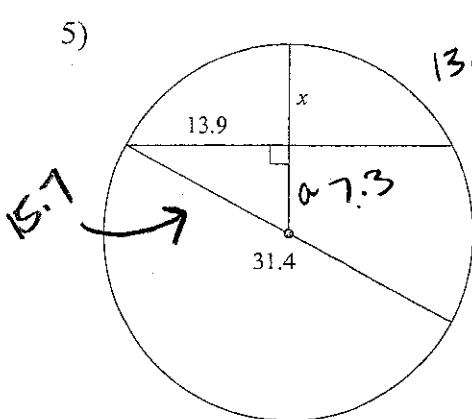
4)



$$4.9^2 + x^2 = 11.9^2$$

$$x \approx 10.8$$

5)



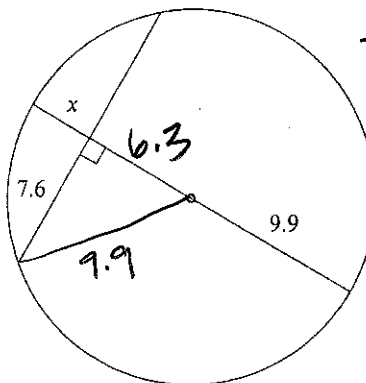
$$13.9^2 + a^2 = 15.7^2$$

$$a \approx 7.3$$

$$15.7 - 7.3$$

$$x = 8.4$$

6)



$$7.6^2 + a^2 = 9.9^2$$

$$a \approx 6.3$$

$$9.9 - 6.3$$

$$x \approx 3.6$$