

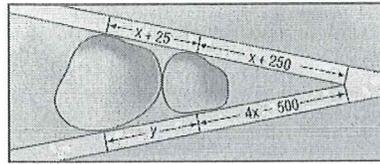
Key

10-5 and 10-6 HW Tangents and Secants

Pg 593 # 3, 5-7, 10, 13-22, 27 and Pg 603 #6-26

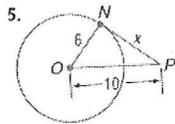
3. LANDSCAPE ARCHITECT

A landscape architect is planning to pave two walking paths beside two ponds, as shown. Find the values of x and y . What is the total length of the walking paths?

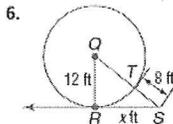


$x=250$ $y=275$ $\therefore 1550$ units

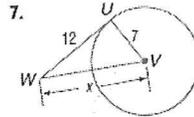
Find x . Assume that segments that appear to be tangent are tangent.



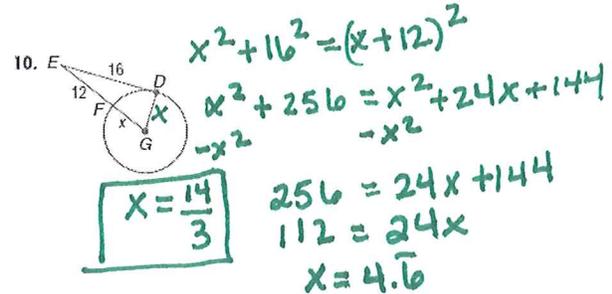
$x=8$



$x=16$

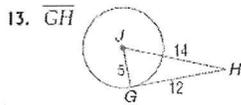


$x=\sqrt{193}$

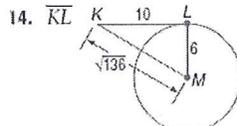


$x = \frac{14}{3}$

Determine whether each segment is tangent to the given circle.



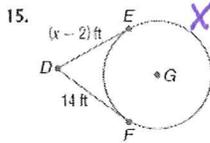
NO



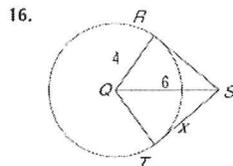
Yes

must Test + show Pyth. thm for both #13 + #14 ; for credit

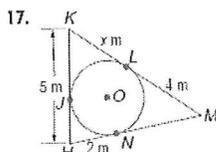
Find x . Assume that segments that appear to be tangent are tangent.



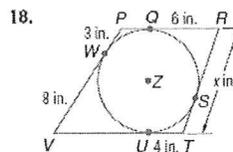
$x=16$



$x=2\sqrt{5}$

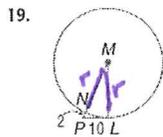


$x=3$



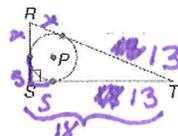
$x=10$

Find the perimeter of each polygon for the given information.



$60 = P$

20. $ST = 18$, radius of $\odot P = 5$



$P = 58.5$ units

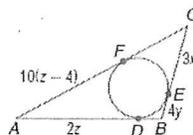
21. $BY = CZ = AX = 2$
radius of $\odot G = 3$



Equilateral

$P=24$

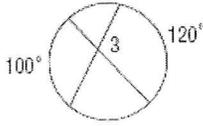
22. $CF = 6(3-x)$, $DB = 12y - 4$



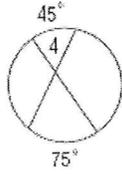
$P = 36$ units

Find each measure.

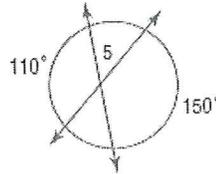
6. $m\angle 3 = 110^\circ$



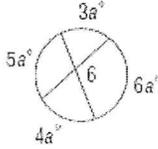
7. $m\angle 4 = 60^\circ$



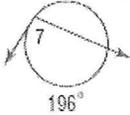
8. $m\angle 5 = 50^\circ$



9. $m\angle 6 = 110^\circ$



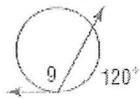
10. $m\angle 7 = 98^\circ$



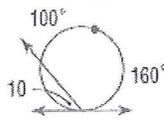
11. $m\angle 8 = 90^\circ$



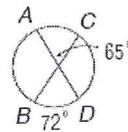
12. $m\angle 9 = 120^\circ$



13. $m\angle 10 = 50^\circ$

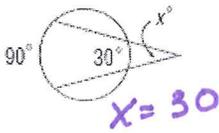


14. $m\widehat{AC} = 58^\circ$



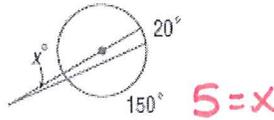
Find x . Assume that any segment that appears to be tangent is tangent.

15.



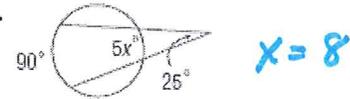
$x = 30$

16.



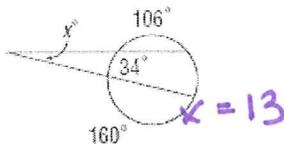
$5 = x$

17.



$x = 8$

18.



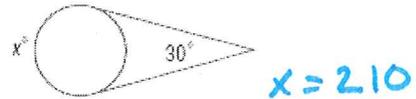
$x = 13$

19.



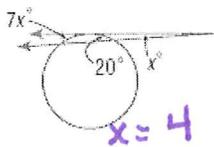
$x = 130$

20.



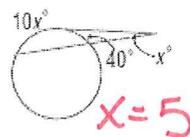
$x = 210$

21.



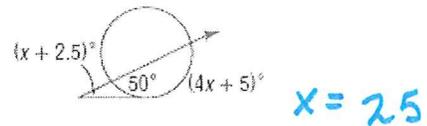
$x = 4$

22.



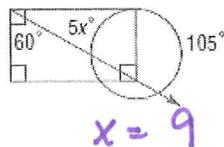
$x = 5$

23.



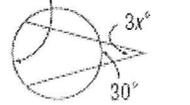
$x = 25$

24.



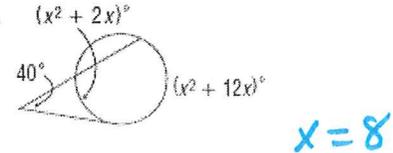
$x = 9$

25. $(4x + 50)^\circ$



$x = 10$

26.



$x = 8$