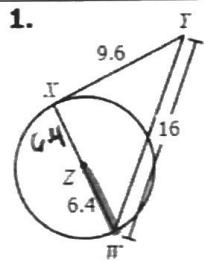


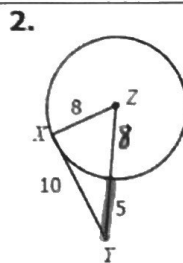
7.4 Tangents

Name: _____

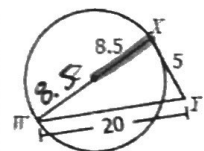
Directions: Determine if \overline{XY} is tangent to circle Z.



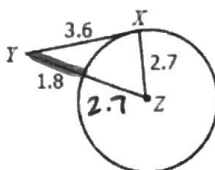
Yes!



NO!

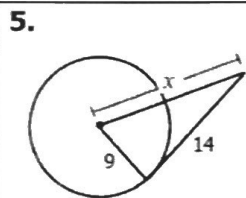


NO!

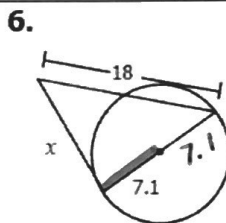


Yes!

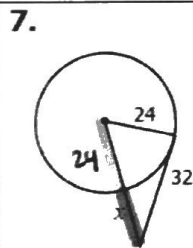
Directions: Find the value of x . Assume that segments that appear to be tangent are tangent.



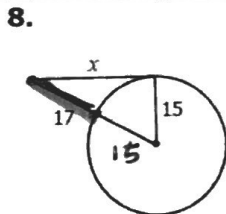
$$x \approx 16.6$$



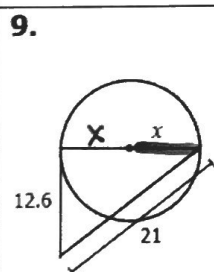
$$x \approx 11.1$$



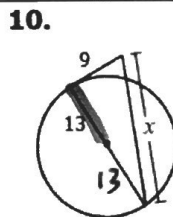
$$x = 16$$



$$x \approx 28.3$$



$$x \approx 8.4$$



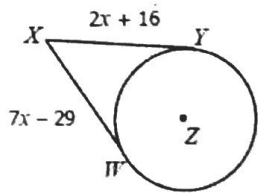
$$x \approx 27.5$$

7.4 Tangents

Name: _____

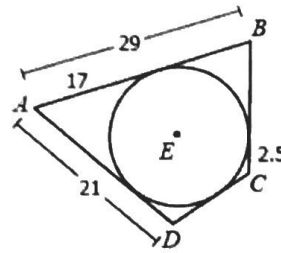
Directions: Find each value or measure. Assume that segments that appear to be tangent are tangent.

12. Find WX .



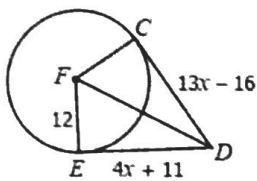
$WX = 34$

13. Find the perimeter of $ABCD$.



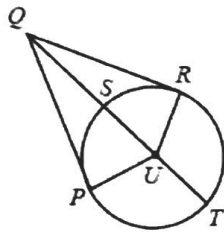
$P = 71$

14. Find FD .



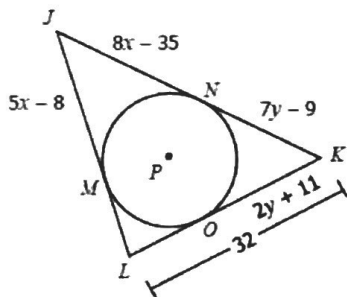
$FD \approx 25.9$

15. If $PQ = 4x + 2$, $QR = 7x - 19$, and $QU = 34$, find ST .



$ST = 32$

16. Find the perimeter of $\triangle JKL$.



$P = 138$