

Name: _____ Date: _____ Row: _____ Period: _____

NOTES SECTION 9.7: CIRCLES AND LENGTHS OF SEGMENTS

THEOREM

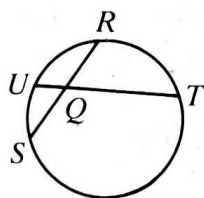
THEOREM

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I-8: Complete.

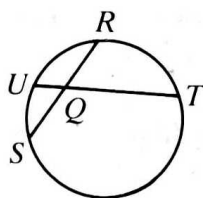
1) If $RQ = 8$, $QS = 6$, and $TQ = 16$, then

$QU = \underline{\hspace{2cm}}$.



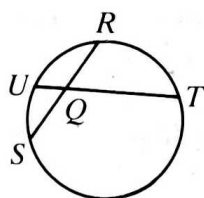
2) If $RS = 13$, $RQ = 7$, and $QU = 3$, then

$TQ = \underline{\hspace{2cm}}$.



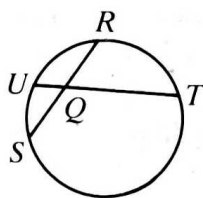
3) If $TU = 10\sqrt{2}$, $QU = 2\sqrt{2}$, and $RQ = 8$, then

$RS = \underline{\hspace{2cm}}$.



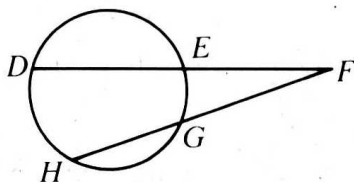
4) If $RS = 17$, $TQ = 18$, and $QU = 4$, then

$RQ = \underline{\hspace{2cm}}$.



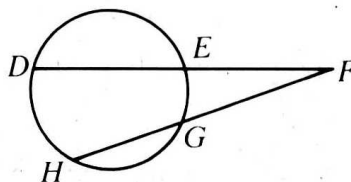
5) If $DF = 17$, $EF = 3$, and $GF = 6$, then

$HF = \underline{\hspace{2cm}}$.



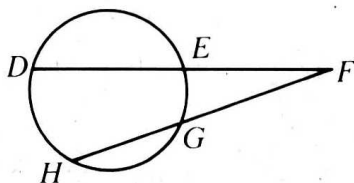
6) If $HG = 8$, $GF = 7$, and $DF = 21$, then

$EF = \underline{\hspace{2cm}}$.



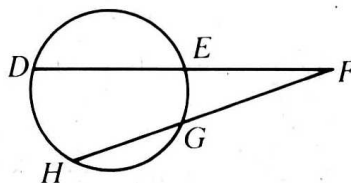
7) If $GF = 8$, $HG = 10$, and $DE = 18$, then

$EF = \underline{\hspace{2cm}}$.



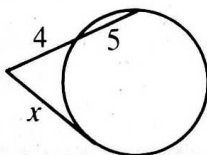
8) If $DF = 25$, $EF = 4$, and $HG = GF = x$, then

$x = \underline{\hspace{2cm}}$.

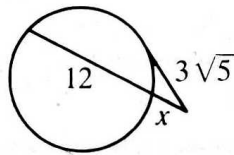


9-12: Secants and tangents are shown. Find the value of x .

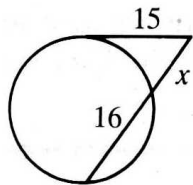
9)



10)



11)



12)

