

Name _____

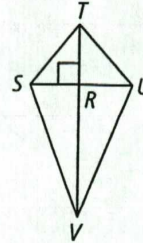
5-1 Additional Practice

Perpendicular and Angle Bisectors

Do 1-8

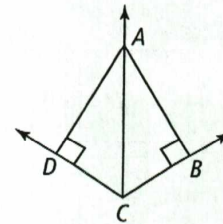
Use the figure at the right for Exercises 1–3.

- If $RU = 16$, $UT = 20$, and $SR = 16$, what is the perimeter of $\triangle SUT$?
- If $SV = 38$, $SU = 26$, and the perimeter of $\triangle SUV$ is 102, what is the value of RU ?
- If $\overline{SV} \cong \overline{UV}$, $SR = 4x - 1$, and $RU = x + 8$, what is the value of SU ?



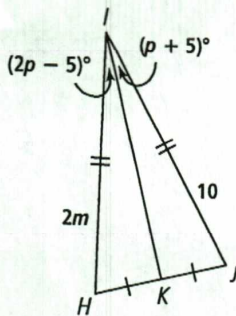
Use the figure at the right for Exercises 4 and 5.

- If $m\angle BAC = 33^\circ$, $BC = 18$, and $CD = 18$, what is $m\angle DAB$?
- If $m\angle DAB = 74^\circ$, $m\angle CAD = 37^\circ$, and $BC = 9.2$, what is the value of CD ?

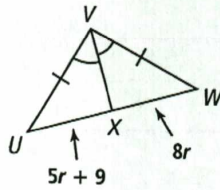


For Exercises 6–8, find the values.

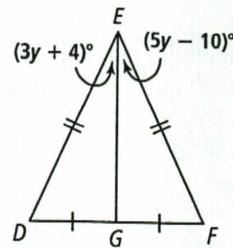
6. m, p



7. r, UW



8. $y, m\angle DEF$



For Exercises 9–11, determine whether point A must be on the bisector of $\angle LMN$. Explain.

