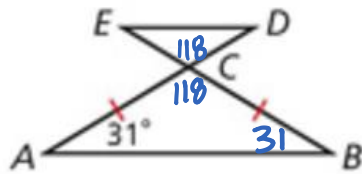


Section 4.9 Homework

Find each angle measure.

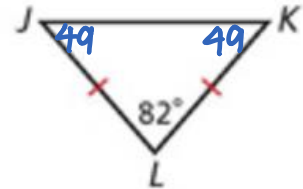
3. $m\angle ECD$

118°

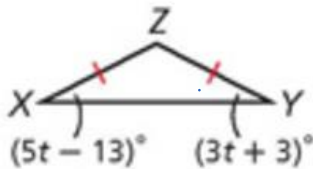


4. $m\angle K$

49°



5. $m\angle X$

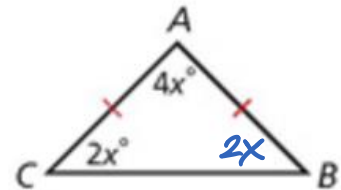


if $\triangle \rightarrow \triangle$

$$\begin{aligned} 5t - 13 &= 3t + 3 \\ 2t &= 16 \\ t &= 8 \end{aligned}$$

$$\begin{aligned} \angle X &= 5(8) - 13 \\ &= 40 - 13 \\ &= 27^\circ \end{aligned}$$

6. $m\angle A$

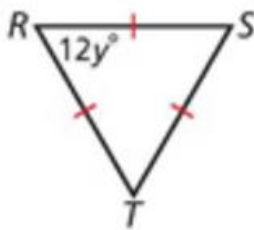


$$\begin{aligned} 2x + 2x + 4x &= 180 \\ 8x &= 180 \\ x &= 22.5 \end{aligned}$$

$$\angle A = 4(22.5) = 90^\circ$$

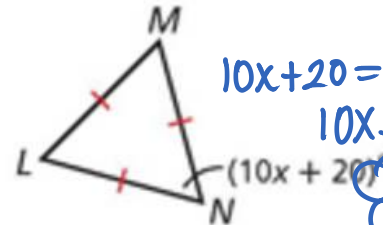
Find each value.

7. y



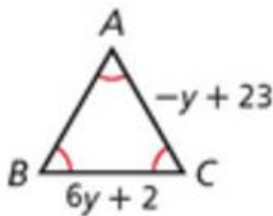
$$\begin{aligned} 12y &= 60 \\ y &= 5 \end{aligned}$$

8. x



$$\begin{aligned} 10x + 20 &= 60 \\ 10x &= 40 \\ x &= 4 \end{aligned}$$

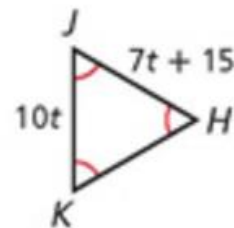
9. BC



$$\begin{aligned} -y + 23 &= 6y + 2 \\ 21 &= 7y \\ y &= 3 \end{aligned}$$

$$BC = 6(3) + 2 = 20$$

10. JK



$$\begin{aligned} 7t + 15 &= 10t \\ 15 &= 3t \\ t &= 5 \end{aligned}$$

$$JK = 10(5) = 50$$