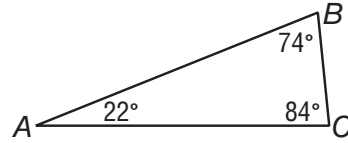


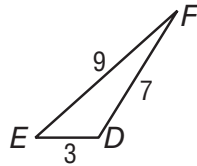
1. _____ Name the longest side of $\triangle ABC$.

- F** \overline{AB} **H** \overline{AC}
G \overline{BC} **J** cannot tell



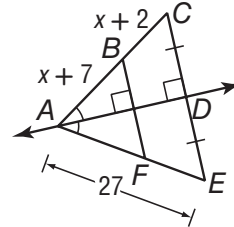
2. _____ Name the angle with greatest measure in $\triangle DEF$.

- A** $\angle D$ **C** $\angle F$
B $\angle E$ **D** cannot tell

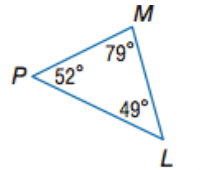


3. _____ $\triangle AEC$ is isosceles with vertex angle A. Find the value of x .

- A** 9 **C** 27
B 11 **D** 32



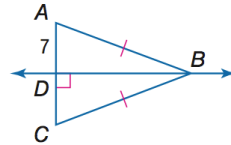
4. _____ Find the shortest segment.



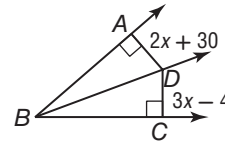
5. _____ Which of the following sets of numbers can be the lengths of the sides of a triangle?

- A** 6, 6, 12 **B** 6, 7, 13 **C** $\sqrt{2}, \sqrt{5}, \sqrt{15}$ **D** 2.6, 8.1, 10.2

6. _____ What is the length of \overline{AC} ?



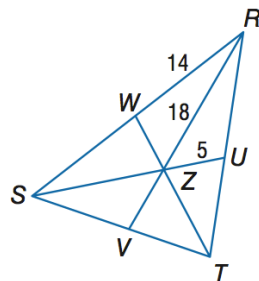
7. _____ If \overrightarrow{BD} bisects $\angle ABC$, find the value of x .



In $\triangle RST$, Z is the centroid, $RZ = 18$, and $UZ = 5$. Find each length.

8. _____ ZV

9. _____ SU



10. _____ The measures of two sides of a triangle are 10 meters and 23 meters. If the measure of the third side is x meters, find the range of possible values of x .