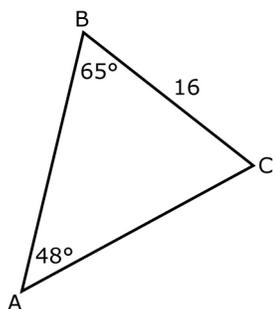


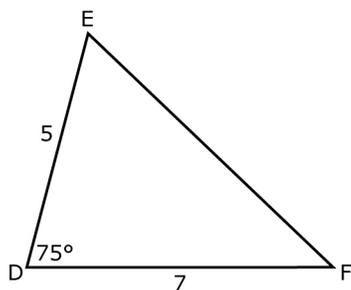
Section 7.3 Extra Practice

1. Can you use the sine law to determine each measure? You do not need to calculate the answer.

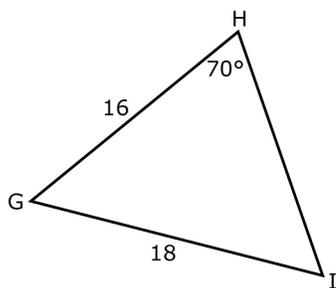
a) side length b in $\triangle ABC$



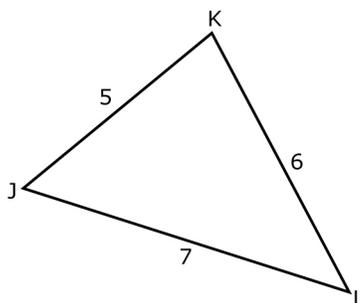
b) side length d in $\triangle DEF$



c) $\angle I$ in $\triangle GHI$

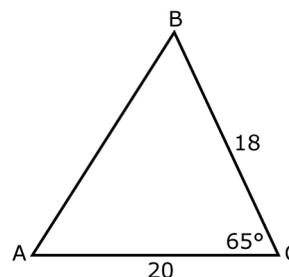


d) $\angle K$ in $\triangle JKL$

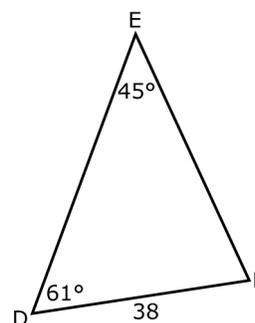


2. Can you use the cosine law to determine each measure? You do not need to determine the answer.

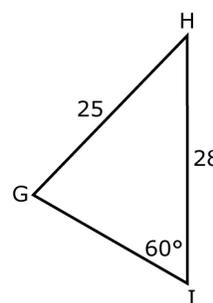
a) side length c in $\triangle ABC$



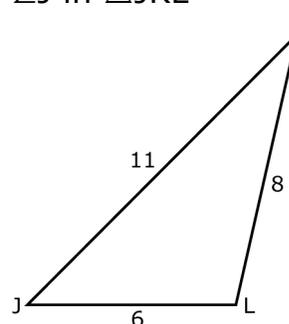
b) side length in $\triangle DEF$



c) $\angle G$ in $\triangle GHI$

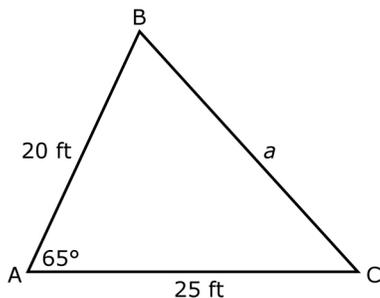


d) $\angle J$ in $\triangle JKL$

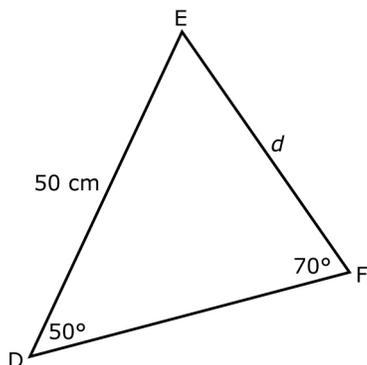


- 3.** Determine each measurement. Round all angles to the nearest degree and all sides to the nearest half of a unit.

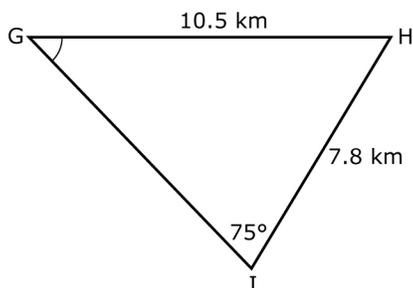
a) side length a in $\triangle ABC$



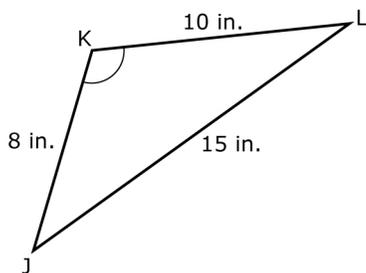
b) side length d in $\triangle DEF$



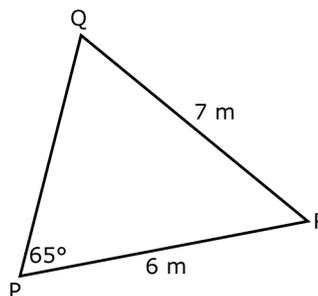
c) $\angle G$ in $\triangle GHI$



d) $\angle K$ in $\triangle JKL$



- 4.** A triangular garden is to be fenced. The carpenter needs to know the perimeter of the garden to estimate the length of wood needed, but some measurements in the diagram are missing.



a) Determine the measure of $\angle Q$.

b) What is the total length of wood needed for the fence? Round your answer to one decimal place.

- 5.** A certain type of triangular sail has the side lengths shown. To cut the material for the sail, the manufacturer must know the size of each angle. Solve the triangle by determining the three unknown angles, to the nearest degree.

