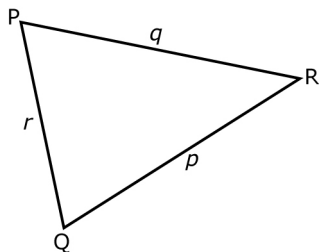


## Section 7.2 Extra Practice

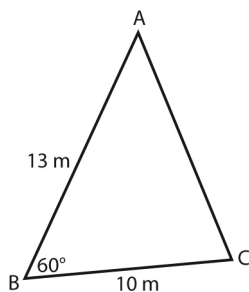
1. Write the cosine law that you would use to determine each measurement in  $\triangle PQR$  below.

- a) side length  $q$   
 b) side length  $r$   
 c)  $\angle Q$   
 d)  $\angle R$

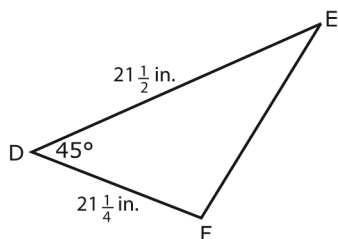


2. Determine the length of the unknown side of each triangle, to the nearest tenth of a unit.

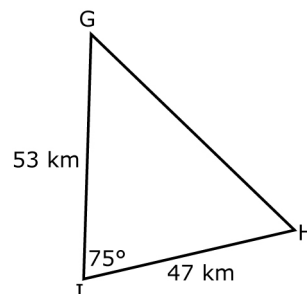
a)



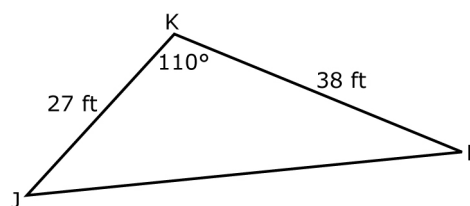
b)



c)



d)

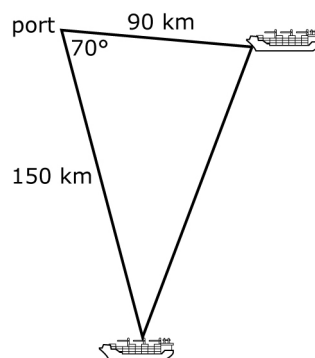


3. Solve for each unknown angle, to the nearest degree.

a)  $\cos C = \frac{22^2 + 7^2 - 16.5^2}{2(22)(7)}$

b)  $\cos C = \frac{36^2 + 25^2 - 50^2}{2(36)(25)}$

4. Two ships left port at the same time. One ship sailed 90 km, while the other sailed 150 km. If the angle between the ships at the time of departure was  $70^\circ$ , how far apart are the ships now?



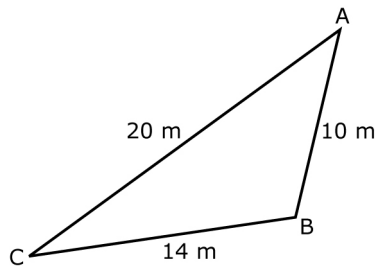
Name: \_\_\_\_\_

Date: \_\_\_\_\_

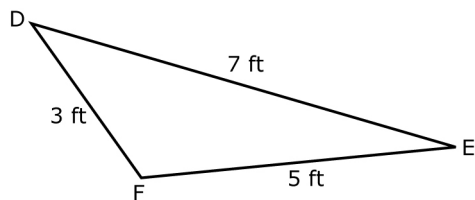
**BLM 7-5**  
(continued)

- 5.** Determine the measure of the specified angle, to the nearest degree.

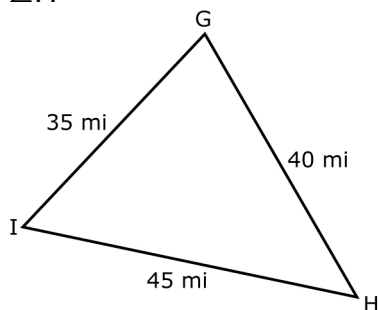
**a)**  $\angle A$



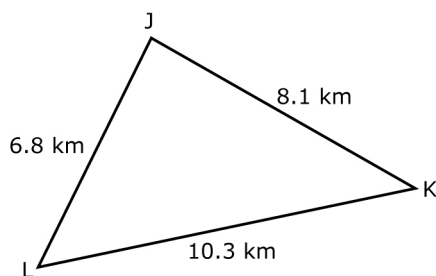
**b)**  $\angle E$



**c)**  $\angle H$



**d)**  $\angle L$



- 6.** A concrete patio is in the shape of a parallelogram. Determine the measure of  $\angle A$  for the design shown.

