Name: _____
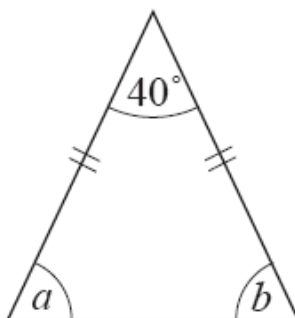
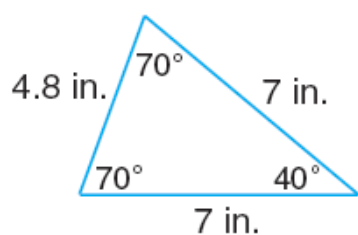# Classifying Triangles

1) The diagram shows an isosceles triangle. What are the sizes of the two angles marked a and b?
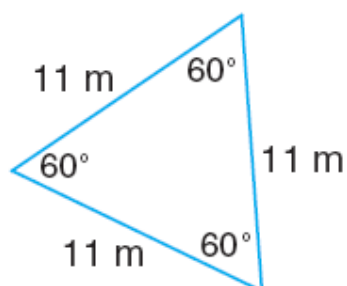

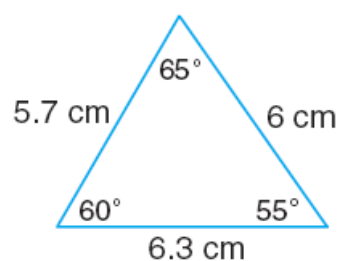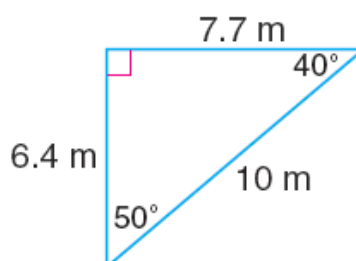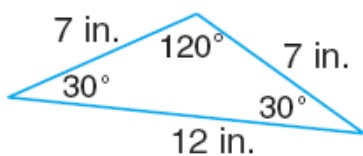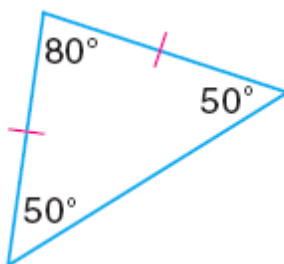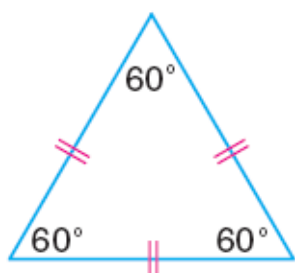2) Classify each triangle by its angles and by its sides.
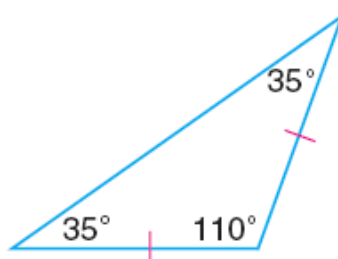
1)

2)

3)

4)

5)

6)
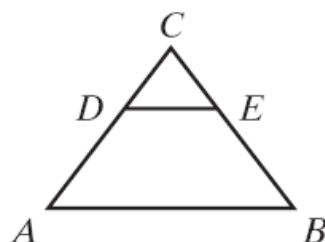

7)

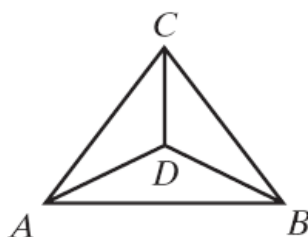

8)

3)   Given: $\overline{AC} \cong \overline{CB}$ and $\overline{DA} \cong \overline{EB}$
     Prove: $\angle CDE \cong \angle CED$

4)   Given: $\overline{AC} \cong \overline{BC}$ and $\angle DAB \cong \angle DBA$
     Prove: $\angle CAD \cong \angle CBD$

5)   Given: RP = RQ, SP = SQ and RS intersect PQ at T
     Prove: $\overline{RT} \perp \overline{PQ}$