Geometry   Name: _____

HW 3.9 Intro to Surveying

Land survey records have given the following information for properties. Is there adequate information to find the existing corners of the property? Explain with a diagram and full sentences – how many triangles are possible?

a) For $\triangle ABC$

$$\overline{AB} = 100\,ft$$
$$m\angle A = 40°$$
$$m\angle B = 55°$$

b) For $\triangle ABC$

$$\overline{AB} = 100\,ft$$
$$m\angle A = 40°$$
$$\overline{AC} = 150\,ft$$

c) For $\triangle ABC$

$$\overline{AB} = 100\,ft$$
$$\overline{AC} = 150\,ft$$
$$m\angle C = 40°$$