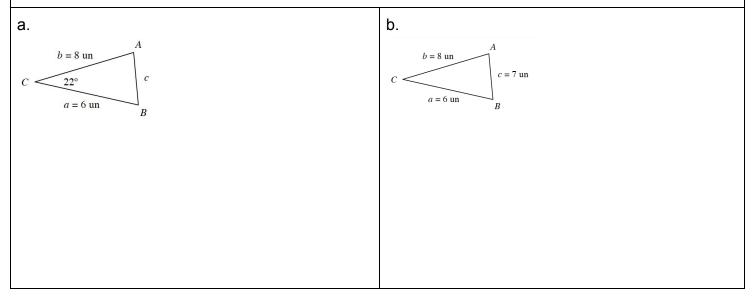


#27 In Lesson 6.1.1, you were not able to solve the following triangles by using the Law of Sines. If possible, solve these triangles by using the Law of Cosines. If you cannot solve a triangle, explain why you cannot.



#28 Two streets bounding your triangular lot make an angle of 74°. The lengths of the two sides of the lot on these streets are 126 feet and 110 feet. You want to build a fence on the third side, but have only 150 feet of fencing on hand.

 a. Do you have enough fencing? Justify your answer.

 b. What are the measures of the other two angles of the lot?

c. The city has zoned the property so that any residence must have a square footage at least one-third the area of the lot itself. You plan to build a 2300 ft² home. Will the city approve your plans? Why or why not