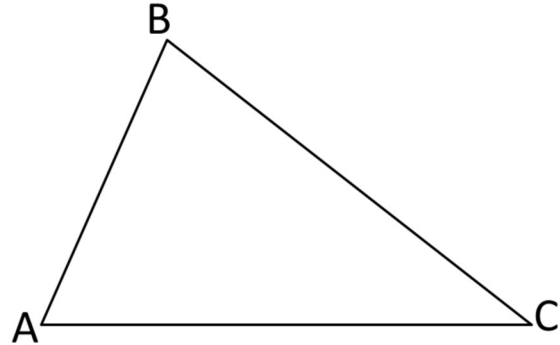


Name _____
Geometry Honors

1) Solve the following triangle using the Law of Sines.

$A = 35^\circ$
 $c = 10$ feet
 $a = 7.6$ feet

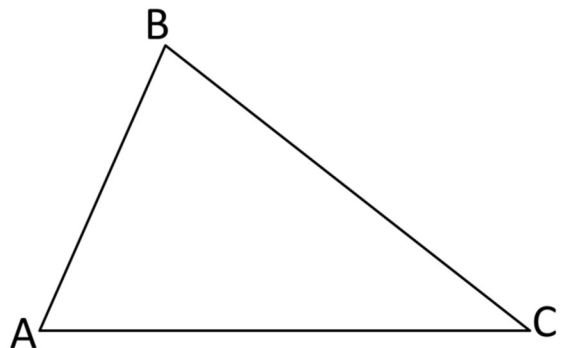


$B =$ _____ $C =$ _____ $b =$ _____

2) Now, what if we are given the following information:

$A = 35^\circ$
 $b = 13.18$ feet
 $a = 7.6$ feet

Would you expect to get the same answers (approximately)? Try it and find out.



$B =$ _____ $C =$ _____ $c =$ _____

Why are the answers different? Hint: Look at the given information for both problems. Would that be enough to prove two triangles congruent?

What did we learn?