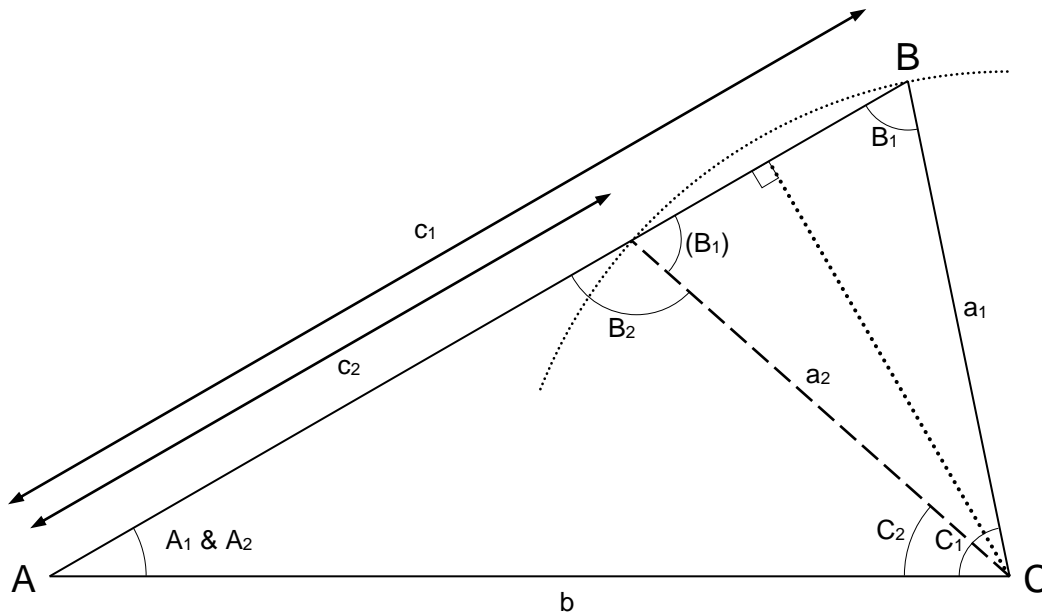


LAW OF SINES AMBIGUOUS CASE



The SSA or ASS Triangle

Given angle "A" ($A_1 \text{ \& \ } A_2$), side "b" and side "a" ($a_1 \text{ \& \ } a_2$).

The ambiguous case is possible only when given SIDE/SIDE/ANGLE or ANGLE/SIDE/SIDE. The general rules to use are:

- 1) If the SIDE opposite the given ANGLE is longer than the other given SIDE, you DO NOT have the AMBIGUOUS CASE and the problem has only one solution.
- 2) If the SIDE opposite the given ANGLE is shorter than the other given SIDE, you DO have the AMBIGUOUS CASE and the problem has two solutions.
- 3) If you have the AMBIGUOUS CASE, the first ANGLE calculated will be the supplement of the second ANGLE of the same letter – note $B_1 \text{ \& \ } B_2$ above.