

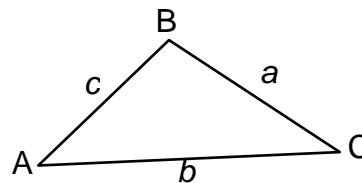
## Trigonometry

### Solving Triangles, The Law of Sines: Homework #2 (Ambiguous Case Included)

For the following problems, use the triangle shown to the right and the three measures given to find the three missing measures.

*\* In an Ambiguous Case, give both possible solutions!*

*\*\* If there is no possible solution, state so.*



1) Given:  $A = 130^\circ$ ,  $c = 9$ ,  $a = 12$

Find:  $B$ ,  $C$ ,  $b$

2) Given:  $A = 60^\circ$ ,  $a = 22$ ,  $c = 25$

Find:  $B$ ,  $C$ ,  $b$

3) Given:  $A = 75^\circ$ ,  $a = 10$ ,  $c = 6$

Find:  $B$ ,  $C$ ,  $b$

4) Given:  $B = 90^\circ$ ,  $C = 30^\circ$ ,  $c = 2$

Find:  $A$ ,  $a$ ,  $b$

5) Given:  $A = 65^\circ$ ,  $a = 6$ ,  $c = 8$

Find:  $B$ ,  $C$ ,  $b$

6) Given:  $A = 70^\circ$ ,  $a = 11$ ,  $c = 6$

Find:  $B$ ,  $C$ ,  $b$