Accel. PreCalculus Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Law of Sines Ambiguous Case 2 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve each triangle. Remember to check for the ambiguous case that could cause two possible triangles. If more than one triangle can be formed, solve both of them.

1. $a=9, b=7, A=108°$ 2. $a=12, b=17, A=39°$

3. $a=14, b=15, A=117°$ 4. $a=18, b=12, A=27°$

5. $a=5, b=9, A=26°$ 6. $a=25, b=34, A=47°$

Answers:

1. B=48, C=24, c=3.9

2. Triangle 1: B=63, C=78, c=18.7 Triangle 2: B=117, C=24, c=7.8

3. No triangle can be formed with the given information.

4. B=18, C=135, c=27.8

5. Triangle 1: B=52, C=102, c=11.2 Triangle 2: B=128, C=26, c=5

6. Triangle 1: B=84, C=49, c=25.8 Triangle 2: B=96, C=37, c=20.6