

Warm Me Up before Law of Sines/Cosines Quest

Name _____

Solve the following triangles. Find all solutions. Round sides to nearest tenth and angles to nearest minute.

1. $a = 12, b = 35, C = 70^\circ$

2. $a = 3, b = 7, c = 5$

3. $C = 50^\circ, a = 16, c = 14$

4. $A = 28^\circ 15', B = 110^\circ 23', c = 19$

5. $A = 63^\circ 15', a = 40, c = 58$

6. Determine the values of side a that will produce the given number of triangles if $A = 28^\circ$ and $c = 15$.

a. Zero Triangles

b. One Triangle

c. Two Triangles

7. Determine the values of side b that will produce the given number of triangles if $B = 62^\circ$ and $a = 23$.

a. Zero Triangles

b. One Triangle

c. Two Triangles