

Determine the number of possible solutions. If a solution exists, solve the triangle described by finding the missing angle measures and side lengths. Round to the nearest hundredth.

1.  $a = 13.7, A = 25^\circ, B = 78^\circ$

2.  $b = 50, a = 33, A = 132^\circ$

3.  $A = 38^\circ, c = 15, B = 63^\circ$

4.  $a = 125, A = 25^\circ, b = 150$

5.  $b = 15.2, A = 12^\circ, C = 57^\circ$

6.  $a = 32, A = 112^\circ, c = 20$

7.  $a = 12, b = 15, A = 55^\circ$

8.  $c = 13, b = 15, C = 50^\circ$