

Unit 4 - WS #3 Law of Sine Ambiguous Cases

Date _____ Period _____

State the number of possible triangles that can be formed using the given measurements.

1) $m\angle B = 130^\circ, a = 26, b = 31$

2) $m\angle B = 31^\circ, a = 27, b = 20$

3) $m\angle B = 30^\circ, b = 15, a = 30$

4) $m\angle B = 107^\circ, a = 27, b = 45$

5) $m\angle A = 134^\circ, c = 12, a = 23$

6) $m\angle C = 73^\circ, b = 30, c = 29$

Find each measurement indicated. Round your answers to the nearest tenth.

7) $m\angle B = 17^\circ, m\angle C = 26^\circ, b = 12$ in
Find c

8) $m\angle B = 27^\circ, a = 26$ km, $b = 9$ km
Find c

Solve each triangle. Round your answers to the nearest tenth.

9) $m\angle A = 33^\circ, c = 18, a = 17$

10) $m\angle A = 145^\circ, c = 17, a = 24$

11) $m\angle A = 109^\circ, m\angle B = 29^\circ, a = 41$

12) $m\angle A = 40^\circ, m\angle B = 24^\circ, c = 42$