Name _____

Date _____

Law of Sines and the Ambiguous Case - Independent Practice Worksheet

Complete all the problems.

1. From the Diagram solve the following:

 $m < A = 34^{\circ}$

a = 9

c = 6

How many distinct triangles can be drawn given these measurements?

2. In $\triangle ABC$, a = 19, b = 15, and m<A = 50°. How many distinct triangles can be drawn given these measurements?

3. In $\triangle ABC$, a = 35, c = 25, and m<A = 60°. How many distinct triangles can be drawn given these measurements?

4. From the Diagram solve the following:

 $m < A = 55^{\circ}$

a = 13

c = 12

How many distinct triangles can be drawn given these measurements?

5. In $\triangle ABC$, a = 8, b = 16, and m<A = 70°. How many distinct triangles can be drawn given these measurements?





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6. In \triangle ABC, a = 35, b = 48, and m<A = 80°. How many distinct triangles can be drawn given these measurements?



m < A = 44° a = 10

c = 16

How many distinct triangles can be drawn given these measurements?



How many distinct triangles can be drawn given these measurements?

9. In $\triangle ABC$, a = 22, b = 36, and m<A = 56°. How many distinct triangles can be drawn given these measurements?

10. In \triangle ABC, a = 32, b = 44, and m<A = 68°. How many distinct triangles can be drawn given these measurements?

