Name _____ Date _____

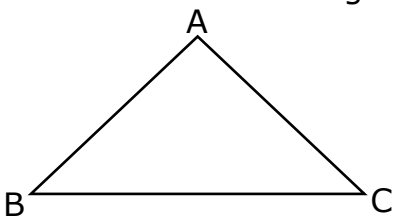
Law of Sines and the Ambiguous Case - Matching Worksheet

Write the letter of the answer that matches the problem.

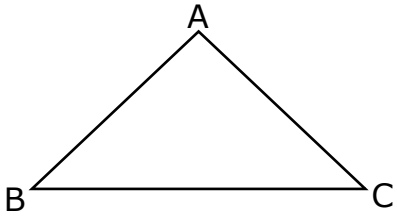
_____ 1. In ΔABC, a = 6, b = 8, and m<A = 20º. How many distinct triangles can be drawn given these measurements?

_____ 2. In ΔABC, a = 11, b = 16, and m<A = 50º. How many distinct triangles can be drawn given these measurements?

_____ 3. From the Diagram solve the following:
m < A = 62°
a = 14
c = 16

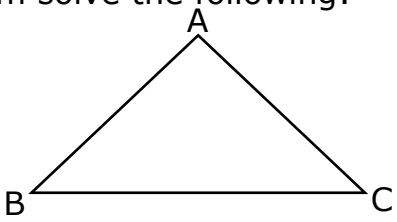


_____ 4. From the Diagram solve the following:
m < A = 78°
a = 25
c = 35



_____ 5. In ΔABC, a = 4, b = 6, and m<A = 20º. How many distinct triangles can be drawn given these measurements?

_____ 6. From the Diagram solve the following:
m < A = 24°
a = 18
c = 9



a. No Triangle

b. m<A =20°, m<B = 26.74°, m<C = 133.26°. One Triangle.

c. m<A =20°, m<B = 23.57°, m<C = 136.43°. One Triangle.

d. m<A =24°, m<B = 144.47°, m<C = 11.53°. One Triangle.

e. No Triangle

f. m<A =62°, m<B = 53.85°, m<C = 64.15°. One Triangle.