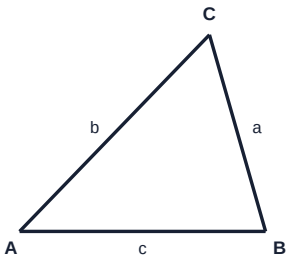
Name _____ Score _____ Teacher _____ Date _____

Law of Sines

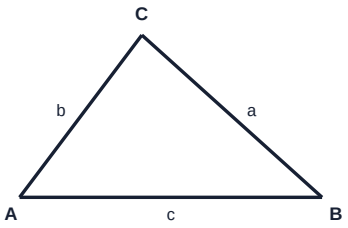
Solve each triangle in degrees. Show the sine proportion, reject any angle set that does not total 180°, and round only final answers to the selected precision.

1. **Given A = 25°, a = 8, and b = 10, determine whether zero, one, or two triangles are possible. Solve every valid triangle to the nearest tenth.**



Label schematic only; does not assert existence

2. **Given A = 53°, B = 42°, and a = 13, solve triangle ABC. Round final values to the nearest tenth.**



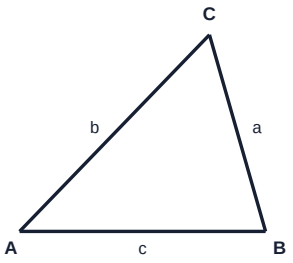
Reference sketch; calculate using the givens.

Name _____ Score _____ Teacher _____ Date _____

Law of Sines

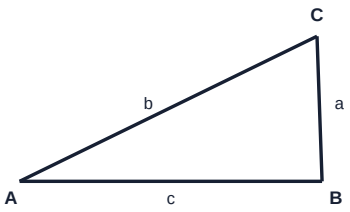
Solve each triangle in degrees. Show the sine proportion, reject any angle set that does not total 180°, and round only final answers to the selected precision.

3. **Given A = 30°, a = 4, and b = 12, determine whether zero, one, or two triangles are possible. Solve every valid triangle to the nearest tenth.**



Label schematic only; does not assert existence

4. **Given A = 26°, B = 88°, and c = 7, solve triangle ABC. Round final values to the nearest tenth.**



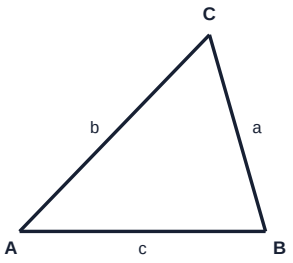
Reference sketch; calculate using the givens.

Name _____ Score _____ Teacher _____ Date _____

Law of Sines

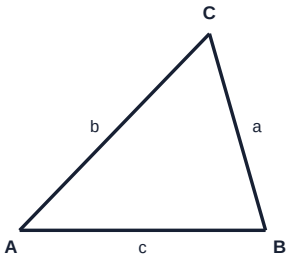
Solve each triangle in degrees. Show the sine proportion, reject any angle set that does not total 180°, and round only final answers to the selected precision.

5. **Given A = 65°, a = 18, and b = 14, determine whether zero, one, or two triangles are possible. Solve every valid triangle to the nearest tenth.**



Label schematic only; does not assert existence

6. **Given A = 31°, a = 10.4, and b = 13, determine whether zero, one, or two triangles are possible. Solve every valid triangle to the nearest tenth.**



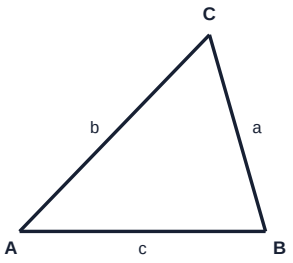
Label schematic only; does not assert existence

Name _____ Score _____ Teacher _____ Date _____

Law of Sines

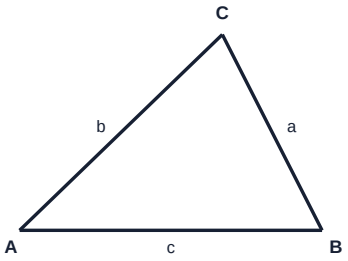
Solve each triangle in degrees. Show the sine proportion, reject any angle set that does not total 180°, and round only final answers to the selected precision.

7. **Given A = 75°, a = 11, and b = 18, determine whether zero, one, or two triangles are possible. Solve every valid triangle to the nearest tenth.**



Label schematic only; does not assert existence

8. **Given A = 44°, B = 63°, and a = 11, solve triangle ABC. Round final values to the nearest tenth.**



Reference sketch; calculate using the givens.