**Solving Triangles Flow Chart**

The triangle is…..

 Right Oblique

Given…

Two sides, to find the third do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

One side, to find the second do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two angles, to find the third \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Case…

One angle, to find the third do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ASS

 AAS, ASA SSS, SAS

 Do\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Do\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 The given angle is…

 **KEY: Ag = Given Angle, So = Side Opposite Given Angle,**

 **Sa = Side Adjacent Given Angle, H = Height**

Obtuse Acute

Compare So to Sa Compare So to Sa



I) If So < Sa, then there are \_\_\_\_\_\_\_ possible triangles. I) If So > Sa, there is \_\_\_\_\_\_\_ possible triangle

 II) If So < Sa, find the height and there are three cases.

 Compare So to H

II) If So > Sa, then there is \_\_\_\_\_\_\_\_ possible triangle. If So < H, there are \_\_\_\_\_\_\_ possible triangles.

 If So = H, there is \_\_\_\_\_\_\_ right triangle.

 If So > H, there are \_\_\_\_\_\_\_ possible triangles.

For Ambiguous Case ASS, use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to find missing sides and angles.