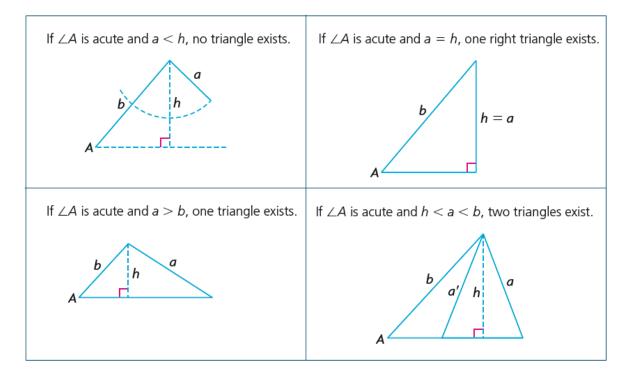
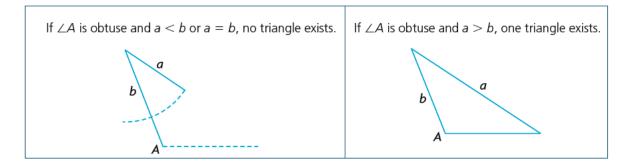
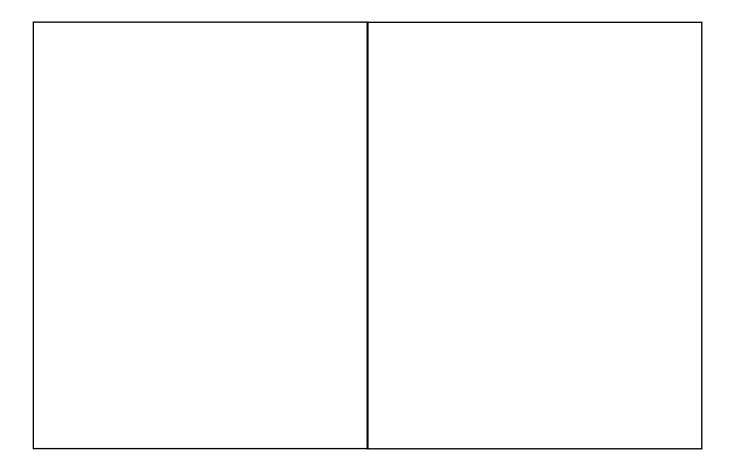
If $\angle A$, a, and b are given and $\angle A$ is acute, there are 4 scenarios to consider:



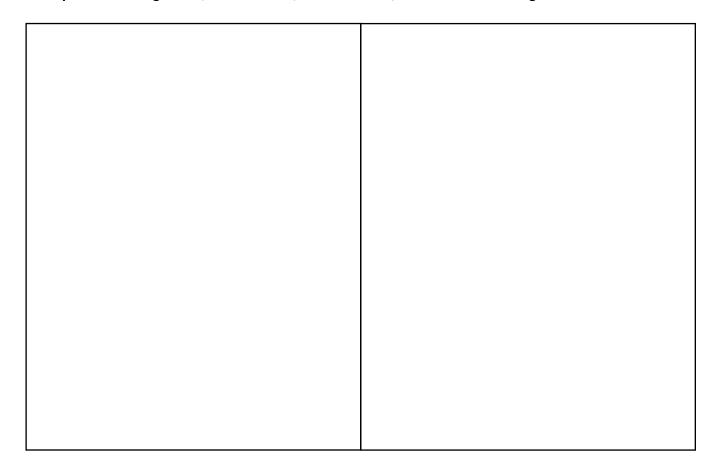
If $\angle A$, a, and b are given and $\angle A$ is obtuse, there are 2 scenarios to consider:



The ambiguous case only occurs when two possible triangles exist for the same given information. This means, the ambiguous case must be considered if ______.



Example 2: In triangle ABC, side a = 8 cm, side c = 10 cm, and A = 34°. Find angle C.



Example 3: In triangle ABC, side a = 14 cm, side b = 17 cm, and A = 54°. Find the measure of all missing sides and angles.

