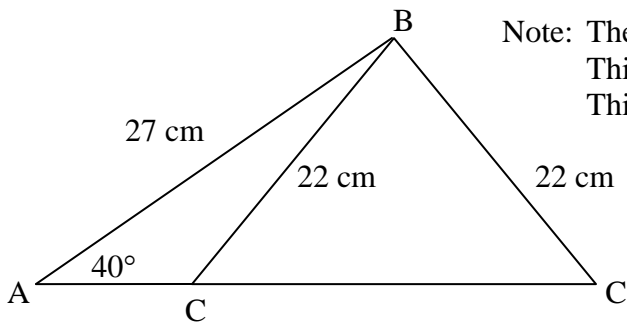


5.4.1: The Ambiguous Case of the Sine Law

Date: _____

Ex. 1 Consider $\triangle ABC$, $\angle A = 40^\circ$, $AB = 27$ cm, and $BC = 22$ cm.



Note: There are 2 different ways to sketch $\triangle ABC$ using this information.
This means there are two possible ways to solve this triangle.
This is the ambiguous case of the Sine Law.

Ex. 2 Solve $\triangle ABC$, $\angle A = 44.3^\circ$, $a = 11.5$ cm, and $b = 7.7$ cm.

Ex. 3 Solve $\triangle ABC$, $\angle A = 144^\circ$, $a = 10.5$ cm, and $b = 12.5$ cm.