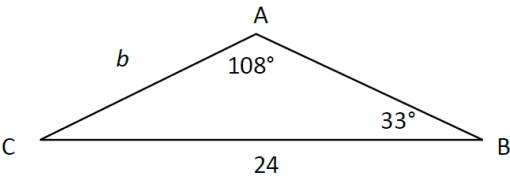# Pre-Cal CW 6.1-6.2 Laws of Sines and Cosines
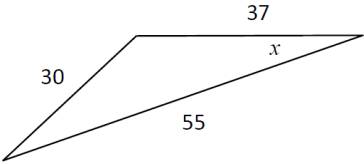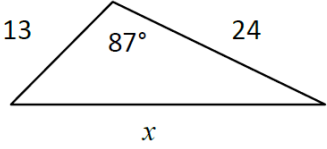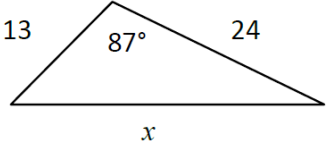
Determine the number of triangles possible. If none, say so. Justify your answer.

1. $m\angle B = 35°$, $a = 24$, $b = 6$	2. $m\angle B = 137°$, $a = 12$, $b = 18$

For each problem, find what the problem is asking for. Round answers accordingly.

3. Find the length of side b.	4. Find the measure of the angle labeled x.
A b 108° 33° C 24 B	37 x 30 55
5. Find the length of the side labeled x. 13 87° 24 x	**6. Find the Area.** 13 87° 24 x
7. Solve the Triangle, given: $m\angle B = 27°$, $a = 28$ ft, $b = 18$ ft	**8. Find the height of the building.** 35° 48° 150 ft