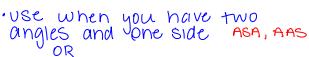
·used to find sides and angles in non-right triangles

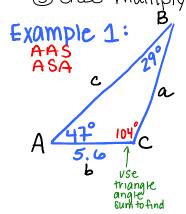
SINA = SINB = SINC



· two sides and one non-included angle ssa > ass

MUST HAVE A COMPLETE RATIO TO USE LAW OF SINES QIF given two angles find third (angle sum = 180°)

Olf given two angles, find third (angle sum = 180°)
2 Set up proportion with angle and corresponding sides.
3 cross multiply and solve.



$$\frac{8 \ln 47}{\alpha} = \frac{8 \ln 29}{5.6}$$

5.6 Sin 47 = a sin 29

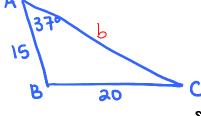
5.6 8In 104 = c sin 29

$$\frac{5.0 \sin 104}{\sin 29} = C$$
11.2 = C

Example 2: ASS - One or Two Triangles

One Triangle

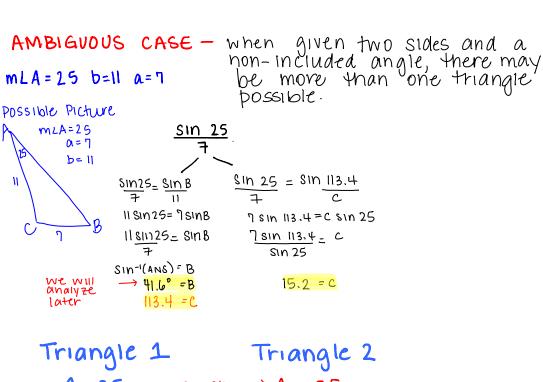
use inverse when finding an angle



<u>Sin 37</u> 20

sin 37 = sin 116.2

Therefore mLB= 116.2 (used Dangle Sum)



-given – - Supptement→B checkangle C 138.4 is there second Δ is possible

because a second & is possible, you now must find the alternate third Side

7511 16.6 = C SIN 25 7 SIN 16.6 = C

SIN 25 47 = C

> WATCH VIDEO LINK FOR FURTHER EXPLANATION!