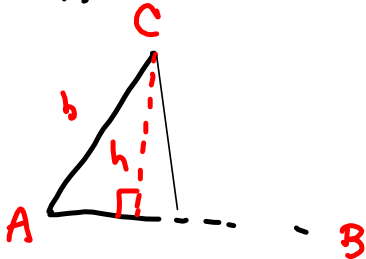


$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

AAS, ASA

ASS has 3 possibilities
1, 2, or 0 triangles possible



SSS, SAS

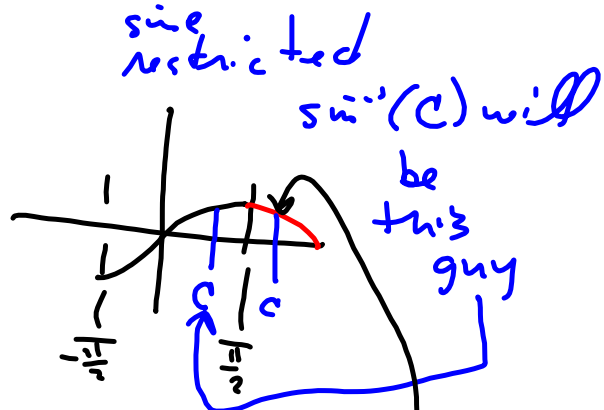
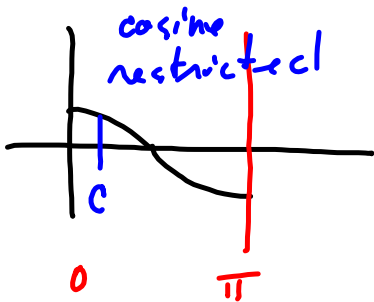
$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$\frac{h}{b} = \sin A$
 $h = b \sin A$

The 2-possibility case:



S_{3.2}

Heron's Formula for Area

$$\sin C = \frac{2}{3}$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

where $s = \frac{a+b+c}{2}$

