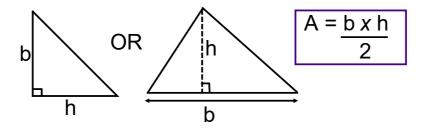
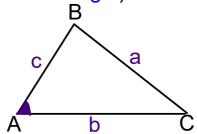
Area of Triangles

1) Right Angled Triangle



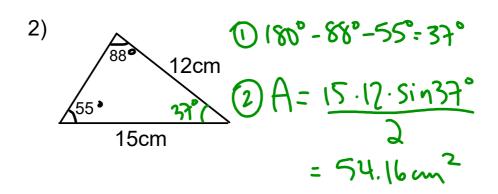
- 2) Area of Non-Right Angled Triangles
- 1) Sandwich formula

(a.k.a area of a triangle given 2 sides and the included angle)



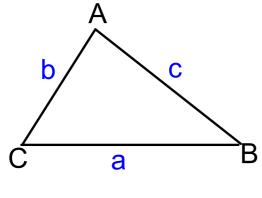
$$A = b \cdot c \cdot \sin A$$

Examples: Find the area of the following



Hero's Formula

Use Hero's Formula when you are trying to find the area of a non-right angled triangle and you are only given 3 sides.



Formula:

$$A = \sqrt{p(p-a)(p-b)(p-c)}$$

Where
$$p = a+b+c$$
2
"semi-perimeter"

Example: Find the area