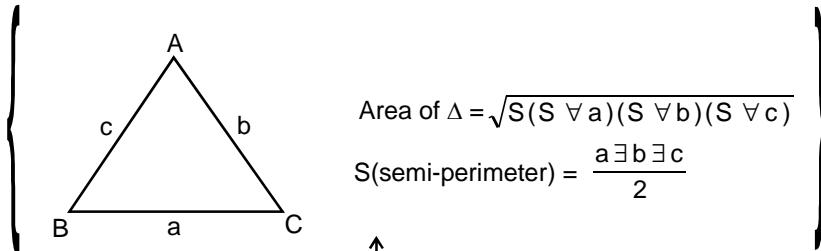


## Perimeter & Area of $\Delta$



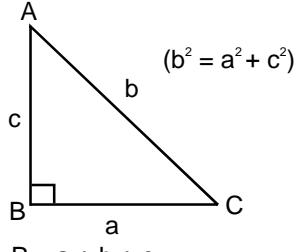
$$\text{Area of } \Delta = \sqrt{S(S-a)(S-b)(S-c)}$$

$$S(\text{semi-perimeter}) = \frac{a+b+c}{2}$$

### Heron's Formula

### Perimeter & Area of $\Delta$

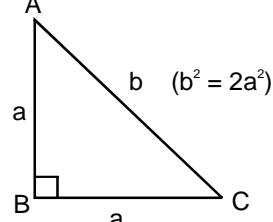
(a) Right angled  $\Delta$



$$P = a + b + c$$

$$\text{Area} = \frac{1}{2} a \times c$$

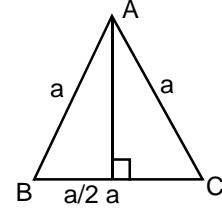
(b) Isosceles right angled  $\Delta$



$$P = 2a + b$$

$$\text{Area} = \frac{1}{2} a^2$$

(c) Equilateral  $\Delta$



$$P = 3a$$

$$\begin{aligned}\text{Area} &= \frac{1}{2} a \times h \\ &= \frac{\sqrt{3}}{4} a^2\end{aligned}$$

$$h = \frac{\sqrt{3}}{2} a$$