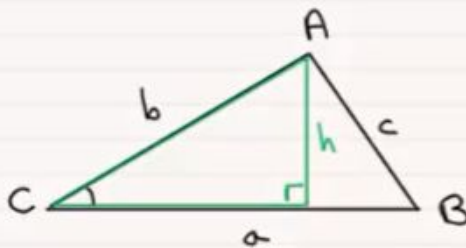




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Proof of Area of a triangle = $\frac{1}{2}ab\sin C$



$$\text{Area } \triangle ABC = \frac{1}{2}ab\sin C$$

Proof:

$$\text{Area } \triangle ABC = \frac{1}{2}ah \quad \text{but } \sin C = \frac{h}{b} \Rightarrow h = b\sin C$$

$$\text{So Area } \triangle ABC = \frac{1}{2}ab\sin C$$



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