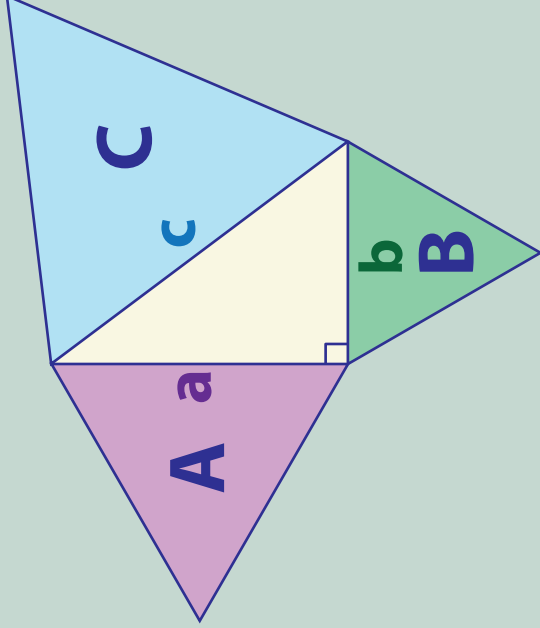


Name : _____

Pythagorean Theorem

The area of the equilateral triangle on the hypotenuse equals the sum of the areas of the equilateral triangles on the other two sides.



$$\frac{\sqrt{3}}{4} a^2 + \frac{\sqrt{3}}{4} b^2 = \frac{\sqrt{3}}{4} c^2$$

$$\frac{\sqrt{3}}{4} (a^2 + b^2) = \frac{\sqrt{3}}{4} c^2$$

$$a^2 + b^2 = c^2$$

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sides **a** and **b** represent the legs of

$$\text{Area of equilateral triangle A} = \frac{\sqrt{3}}{4} a^2$$

$$\text{Area of equilateral triangle B} = \frac{\sqrt{3}}{4} b^2$$

$$\text{Area of equilateral triangle C} = \frac{\sqrt{3}}{4} c^2$$

Lengths of the sides **a**, **b** and **c**, can be the "**Pythagorean equation**".

$$a^2 + b^2 = c^2$$