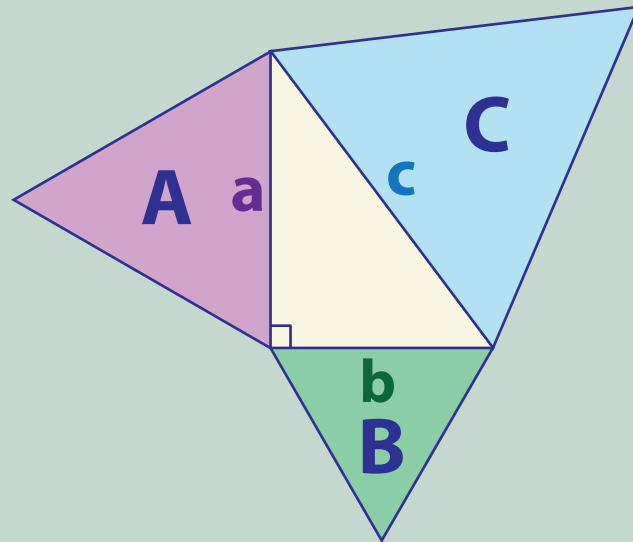


Name : _____

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

equilateral triangle **A** = $\frac{\sqrt{3}}{4} a^2$

equilateral triangle **B** = $\frac{\sqrt{3}}{4} b^2$

equilateral triangle **C** = $\frac{\sqrt{3}}{4} c^2$

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

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