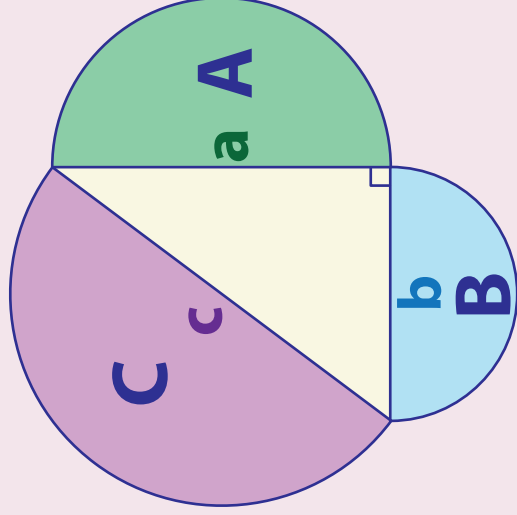


Name: _____

Pythagorean Theorem

The area of the semicircle on the hypotenuse equals the sum of the areas of the semicircles on the other two sides.



$$\frac{1}{8} \pi a^2 + \frac{1}{8} \pi b^2 = \frac{1}{8} \pi c^2$$

$$\frac{1}{8} \pi (a^2 + b^2) = \frac{1}{8} \pi c^2$$

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

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

$$\text{Semicircle A} = \frac{1}{8} \pi a^2$$

$$\text{Semicircle B} = \frac{1}{8} \pi b^2$$

$$\text{Semicircle C} = \frac{1}{8} \pi c^2$$

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

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