

## Area Formulae

$$\boxed{\square} = l \times w$$

$$\boxed{\triangle} = \frac{1}{2}(b \times h)$$

$$\boxed{\text{trapezoid}} = b \times h$$



$$\boxed{\text{triangle}} = \frac{1}{2}(a + b)h$$

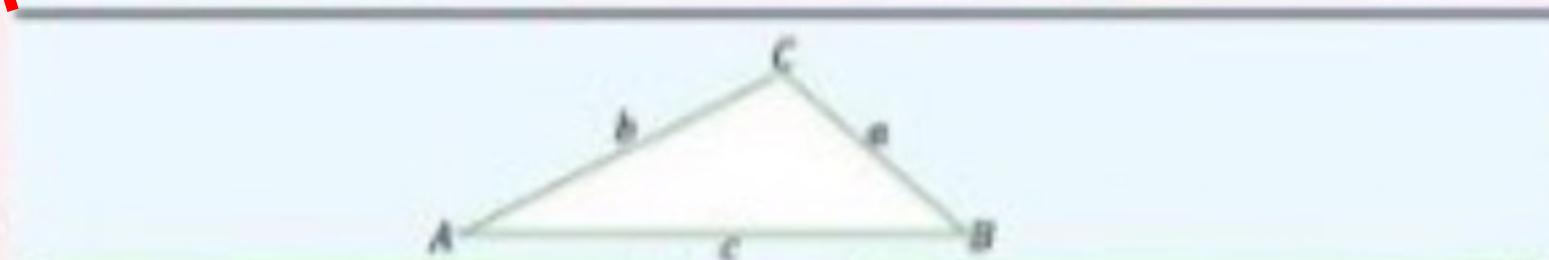
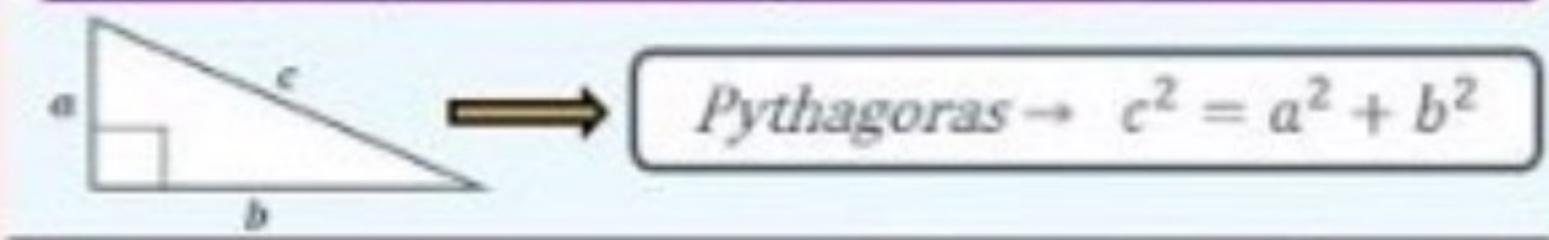


$$\text{Area} = \frac{1}{2}ab \sin C$$



$$\begin{aligned} A &= \pi r^2 \\ C &= \pi d \\ C &= 2\pi r \end{aligned}$$

## Pythagoras and Trigonometry formulae



The Sine rule formula

Missing length

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Missing angle

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

The Cosine rule formula

Missing length

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Missing angle

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

## Simple interest

$$\text{Interest} \Rightarrow \text{Principal} \times \text{Rate} \times \text{Years}$$

## Compound Growth and Decay

$$\text{Interest} \Rightarrow \text{Principal} \times \left(1 \pm \frac{\text{Rate}}{100}\right)^{\text{Years}}$$

## The Quadratic equation

Used for solutions of  
 $ax^2 + bx + c = 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

## Volume

Prism = Area of face  $\times$  depth

Pyramid =  $\frac{\text{Area of base} \times \text{height}}{3}$

## Compound measures

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Pressure} = \frac{\text{Force}}{\text{Area}}$$

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