

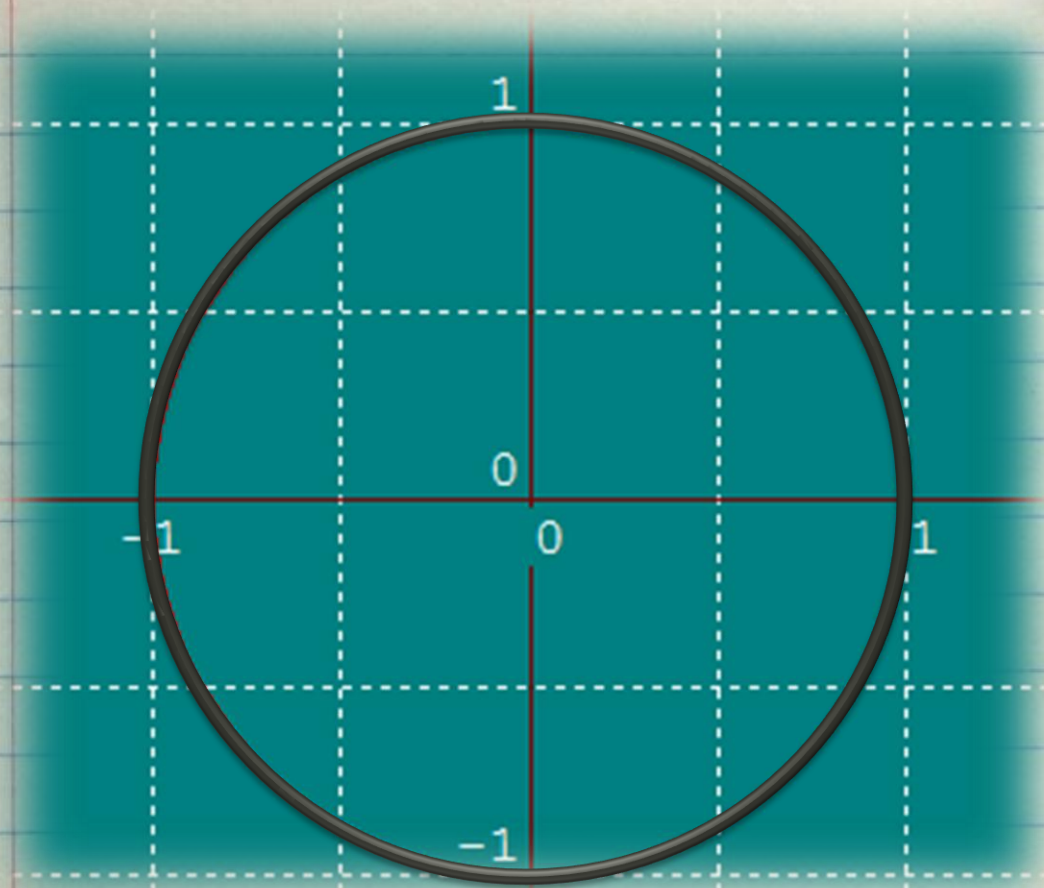
$$\frac{\sqrt{3}}{4}(a)$$

Circular Functions

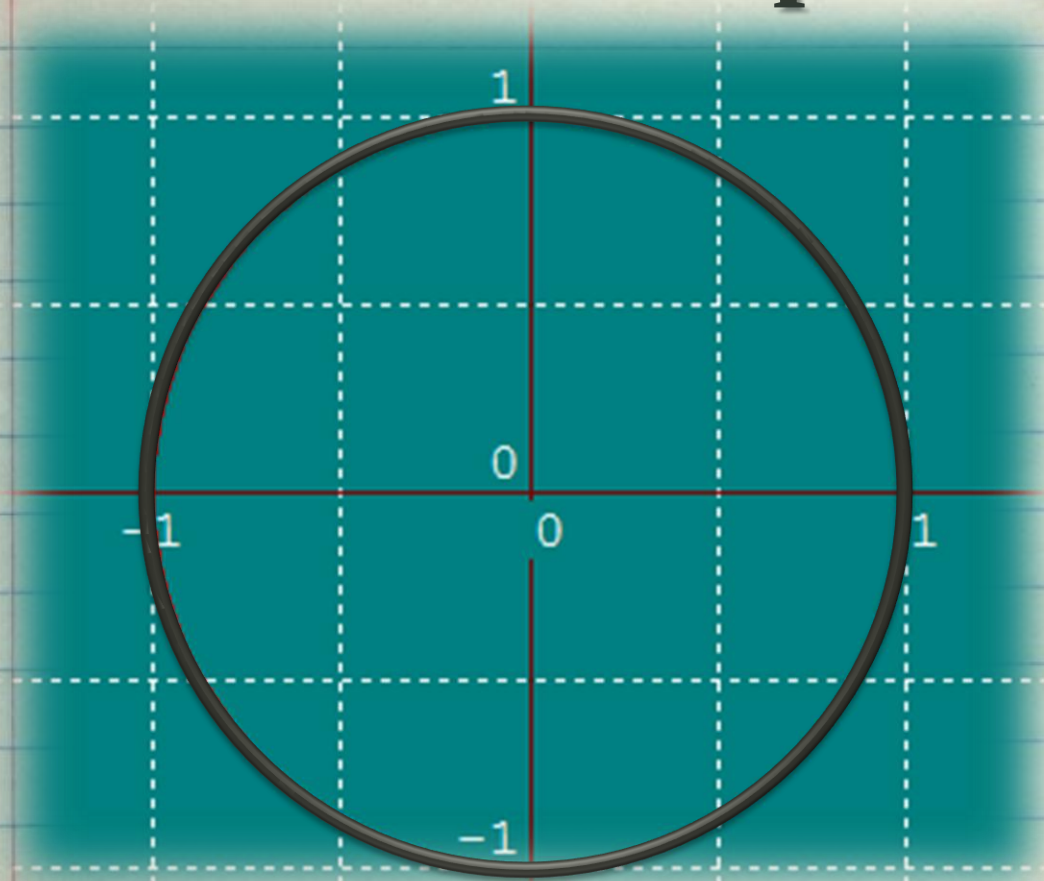
$$S = \sqrt{p(p-a)}$$

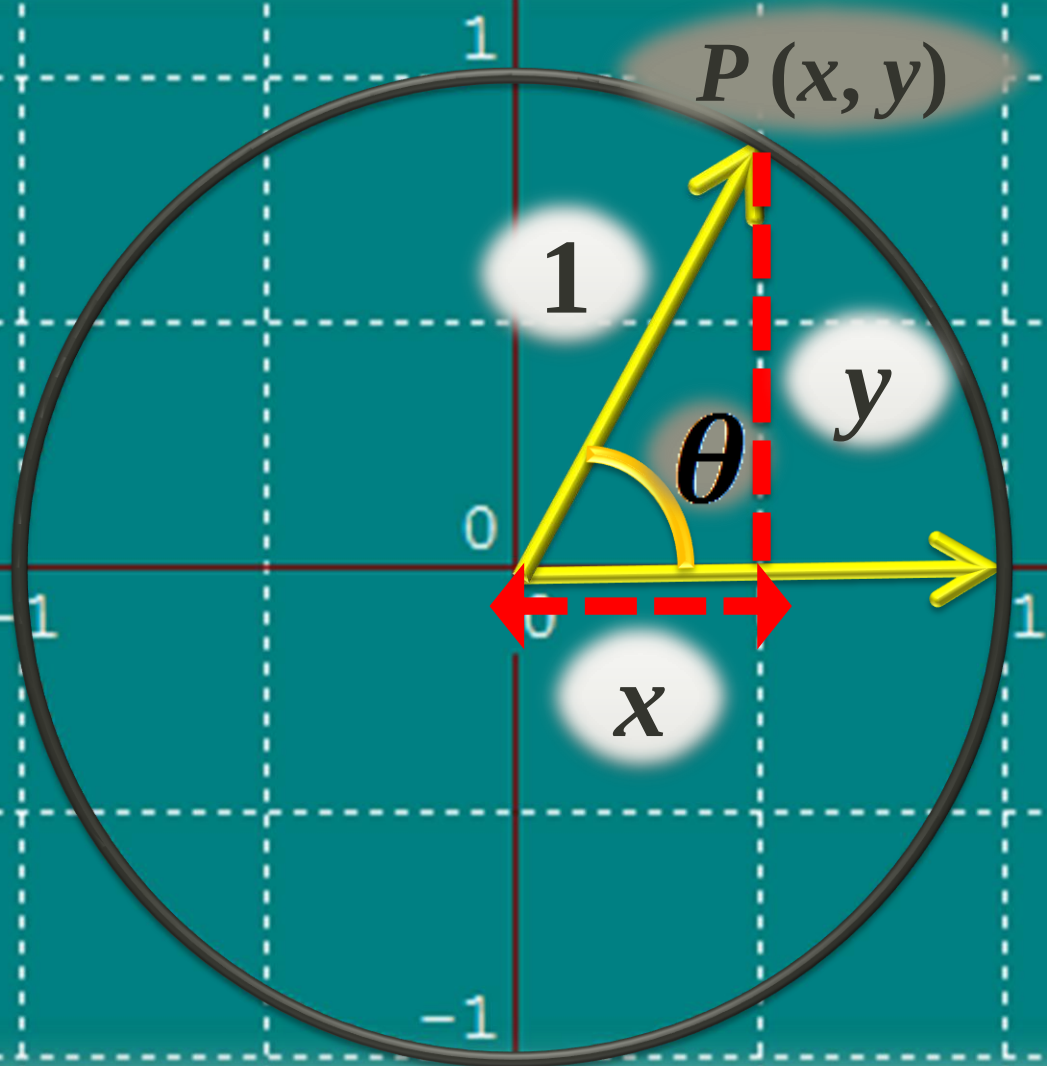
$$\begin{pmatrix} f \\ g \end{pmatrix} = \frac{f \cdot g - f \cdot g}{g^2}$$

The Unit Circle is a circle with a radius of 1 unit



**Centred at the origin on the
coordinate plan**



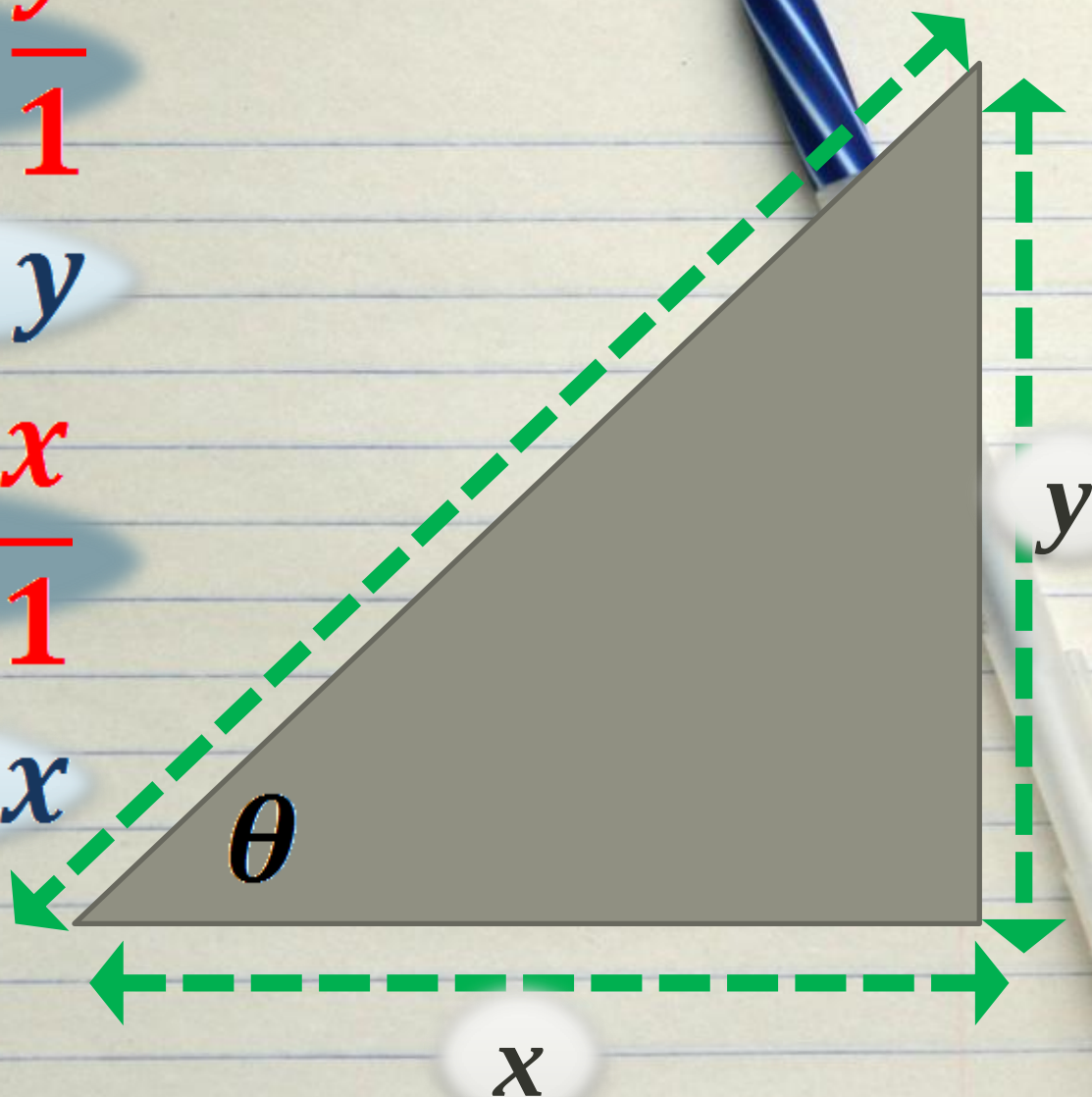


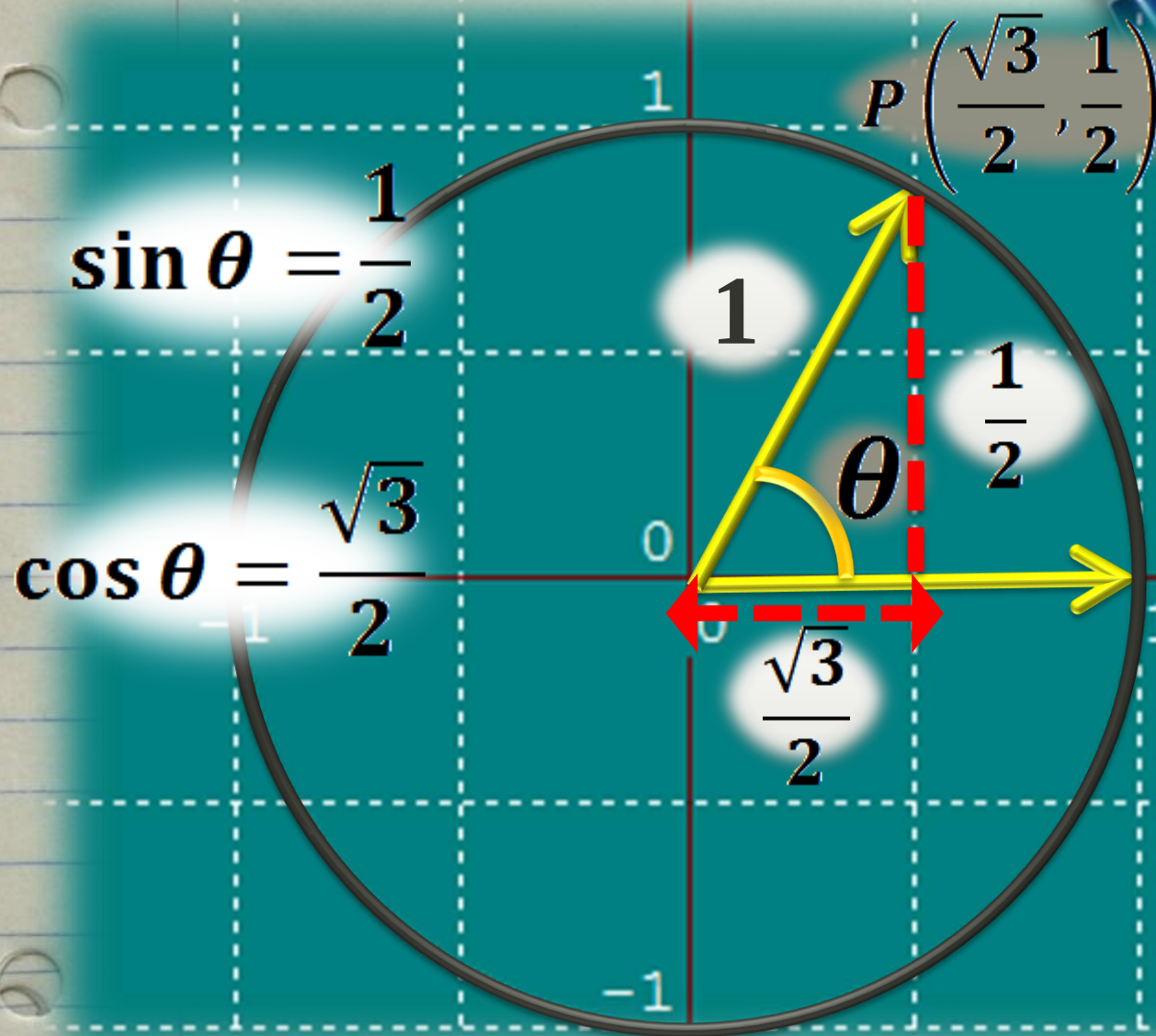
$$\sin \theta = \frac{y}{1}$$

$$\sin \theta = y$$

$$\cos \theta = \frac{x}{1}$$

$$\cos \theta = x$$



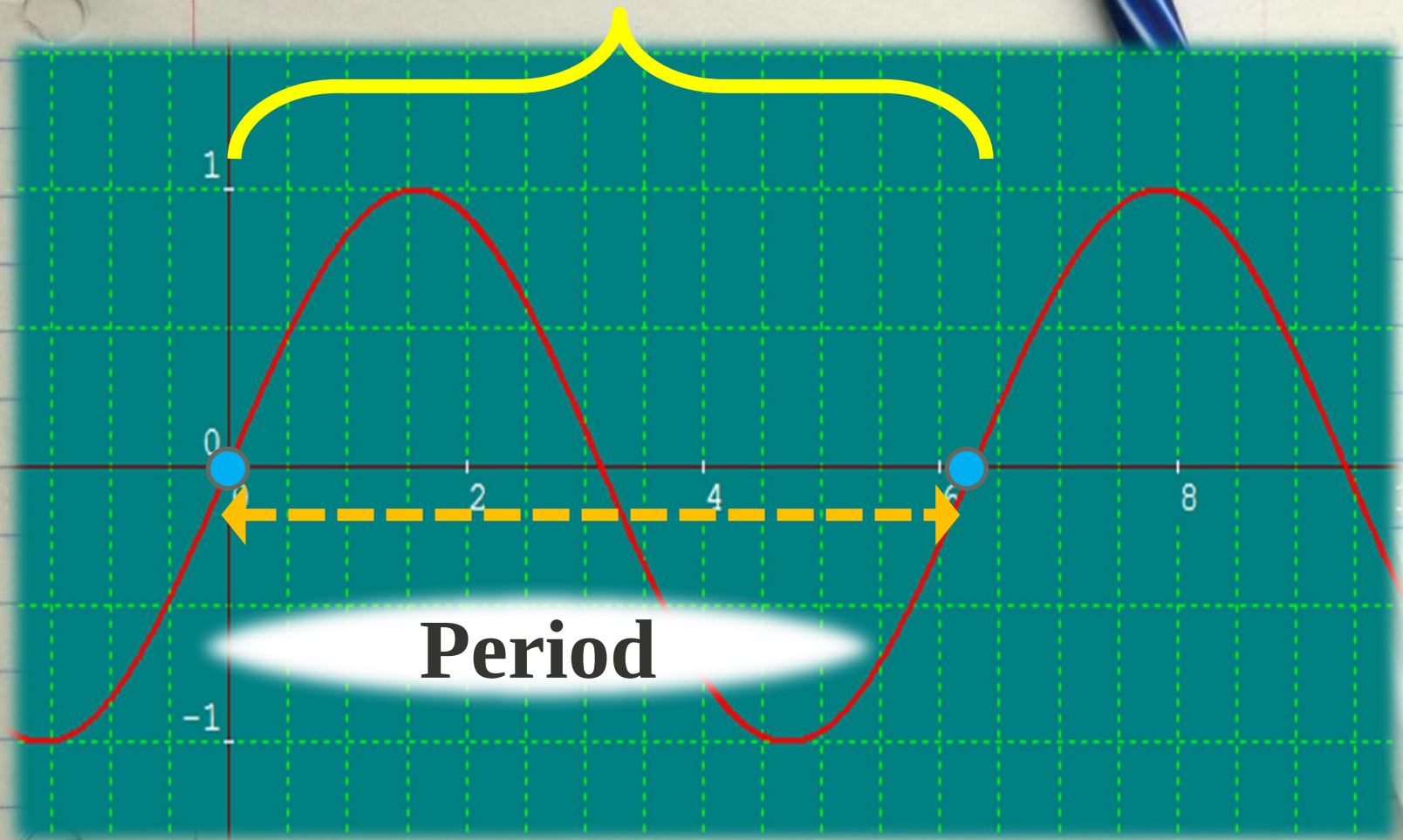


A **Periodic Function** has y-values that repeat at regular intervals

One complete pattern is a **cycle**

The horizontal length of one cycle is **the period**

One Cycle



Period