***Differentiation of Trigonometric Functions***

**1 - Derivative of sin x.**

**The derivative of f(x) = sin x is given by**

**f '(x) = cos x**

2 - Derivative of cos x.

**The derivative of f(x) = cos x is given by**

**f '(x) = - sin x**

* **f(x) = sin(x) + cos(x)**
* **f'(x) = cos(x) – sin(x) = 0**

**(This requires application of first principles of trigonometry - When is sin(x) = cos(x)? When the angle is 45 Degrees. )**