

$$x^2 + y^2 = 1$$

$$x = \sqrt{1 - y^2}$$

and also $y = \sqrt{1 - x^2}$

$$(a + b)^2 = a^2 + 2ab + b^2 \quad (1)$$

$$(a + b) \cdot (a - b) = a^2 - b^2$$