$$(a + b)^3 = (a + b)(a + b)^2 \qquad (1)$$
$$= (a + b)(a^2 + 2ab + b^2) \qquad (2)$$
$$= a^3 + 3a^2b + 3ab^2 + b^3 \qquad (3)$$

$$x^2 + y^2 = 1 \qquad (4)$$
$$x = \sqrt{1 - y^2} \qquad (5)$$