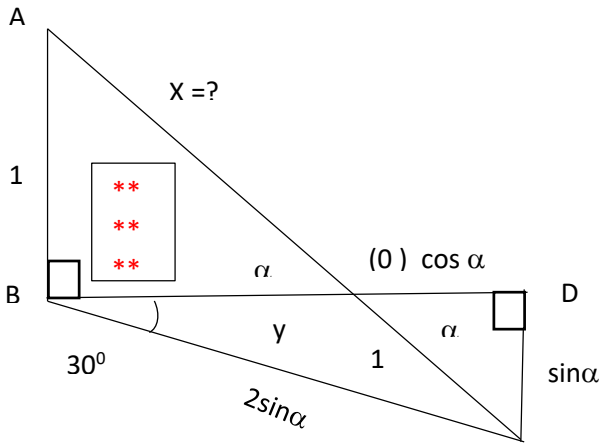
Trigo 5



$\frac{AB}{y}$ = tgα ⇒ tgα = $\frac{1}{y}$ y = BO

BD = $\sqrt{2^2 - 1^2}$. sinα / BD = $\sqrt{3}$ sinα

BD = $\sqrt{3}$ sinα = Xcosα + cosα / : cosα

$\sqrt{3}$ .tgα = X +1

$\sqrt{3}$. $\frac{1}{y}$ = X + 1 ⇒ y = $\frac{\sqrt{3}}{x+1}$

$y^2 + 1^2 = x^2$, triangle ABO

$(\frac{\sqrt{3}}{x+1})^2 + 1 = x^2$

$x^4 + 2x^3 - 2x - 4 = 0$

$x^3(x +2) - 2 (x+ 2) = 0$

$(x^3 - 2) (x+2) = 0$

$x^3 = 2$

$x = \sqrt[3]{1}$