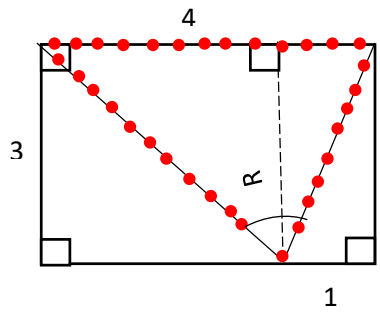
Trigo 5



$\alpha_1 = 45^0$ $(t_g\alpha_1 = 1)$

$\alpha_2 = ?$ $(t_g\alpha_2 = \frac{1}{3})$

$\alpha = \alpha_1 + \alpha_2$ $t_g\alpha = t_g(\alpha_1 + \alpha_2) = \frac{\frac{1}{3}+1}{1-\frac{1}{3}.1} = \frac{4/3}{2/3} = 2$

Given:

$t_g\alpha = 2$

$t_g\beta = 1$

$t_g\gamma = 3$, Prove $\alpha+\beta+\gamma = 180^0$

$t_g(\beta+\gamma) = \frac{1+3}{1-3} = -2$

$t_g\alpha = 2$

$t_g[\alpha+(\beta+\gamma)] = \frac{2+(-2)}{1-(-4)} = \frac{0}{5} = 0$

$\alpha + \beta + \gamma = 180^0$