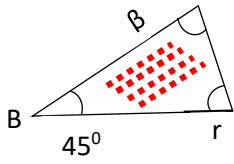


Trigo Prove  $t_g \gamma = 3$



Given  $t_g \alpha = 1$

$$t_g \beta = 2$$

Prove  $\Rightarrow t_g \gamma = 3$

$$\beta + \gamma = 180^\circ - 45^\circ = 135^\circ$$

$$t_g(\beta + \gamma) = -1$$

$$t_g \beta = 2, \quad t_g \gamma = a$$

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

$$\frac{2+a}{1-2a} = -1$$

$$2+a = -(1-2a)$$

$$2+a = 2a - 1$$

$$a = 3 = t_g \gamma$$

$$t_g \alpha = 1$$

$$t_g \beta = 2$$

$$t_g \gamma = 3$$