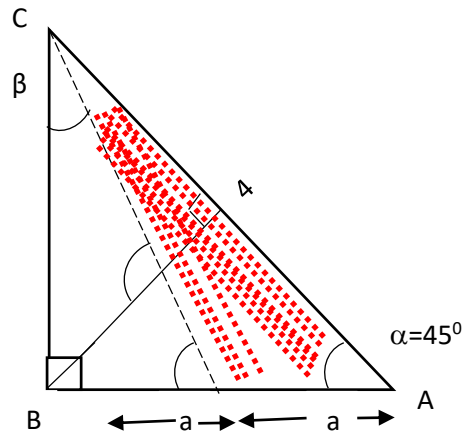


Trigo $t_g \alpha$



$$AB=BC=2a$$

$$\sphericalangle B = 90^\circ$$

$$AC = 4$$

$$\sphericalangle A = \alpha = \frac{90}{2} = 45^\circ$$

$$t_g \alpha = t_g 45^\circ = 1$$

$$t_g \beta = \frac{a}{2a} = \frac{1}{2}$$

$$r = \alpha - \beta, \quad t_g r = ?$$

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

$$t_g x = \frac{2a}{a} = 2$$

$$ct_g r = \frac{1}{t_g r} = \frac{1}{\frac{1}{3}} = 3$$

$$t_g(90+r) = -ct_g r = -3$$

$$a = ?$$

$$(BC)^2 + (AB)^2 = 4^2$$

$$(2a)^2 + (2a)^2 = 16$$

$$4a^2 + 4a^2 = 16$$

$$8a^2 = 16$$

$$a^2 = 2$$

$$a = \sqrt{2}$$