Trigo Find (α+β)

Given:

$tg\alpha = \frac{1}{2}$

$tg\beta = \frac{1}{3}$

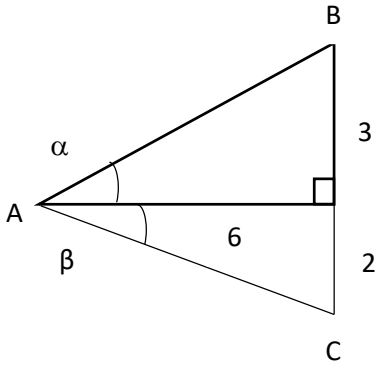
Calculate (α+β) = ?

$tg\ (\alpha+\beta) = \frac{tg\alpha + tg\beta}{1 - tg\alpha.tg\beta}$

$tg\ (\alpha+\beta) = \frac{\frac{1}{2}+\frac{1}{3}}{1-\frac{1}{6}} = \frac{3+2}{6-1} = \frac{5}{5} = 1$

$tg\ (\alpha+\beta) = 1$

$\alpha+\beta = 45^0$



The area of triangle ABC

$A = \frac{(3+2).6}{2} = 5.3 = 15$