

Simplificar las expresiones siguientes:

a) $\frac{\operatorname{sen} \alpha}{1 + \cos \alpha} - \frac{1 - \cos \alpha}{\operatorname{sen} \alpha} =$ (Solución = 0)

b) $\frac{\cos^4 \alpha - \operatorname{sen}^4 \alpha}{\cos^2 \alpha - \operatorname{sen}^2 \alpha} =$ (Solución = 1)

c) $\frac{1}{1 - \operatorname{sen} \alpha} + \frac{1}{1 + \operatorname{sen} \alpha} =$ (Solución = $2 \sec^2 \alpha$)

d) $\frac{\cot g \alpha + \operatorname{tg} \alpha}{\cot g \alpha - \operatorname{tg} \alpha} - \sec 2\alpha =$ (Solución = 0)