

$$\int \frac{dx}{\sqrt{1+\tan(x)}} = -i \left(\frac{\tanh^{-1} \left(\frac{\sqrt{\tan(x)+1}}{\sqrt{1-i}} \right)}{\sqrt{1-i}} - \frac{\tanh^{-1} \left(\frac{\sqrt{\tan(x)+1}}{\sqrt{1+i}} \right)}{\sqrt{1+i}} \right) \quad (1)$$