Zadatak 22.   Ako je $\operatorname{tg} \dfrac{x}{2} = m$, gdje je m realni broj, koliko je $\dfrac{1 - 2\sin^2 \dfrac{x}{2}}{1 + \sin x}$?

Rješenje. $\dfrac{1 - 2\sin^2 \dfrac{x}{2}}{1 + \sin x} = \dfrac{\cos x}{1 + \sin x} = \dfrac{\cos x}{1 + 2\sin \dfrac{x}{2}\cos \dfrac{x}{2}} = \dfrac{\cos x}{\sin^2 \dfrac{x}{2} + \cos^2 \dfrac{x}{2} + 2\sin \dfrac{x}{2}\cos \dfrac{x}{2}}$

$= \dfrac{\cos^2 \dfrac{x}{2} - \sin^2 \dfrac{x}{2}}{\left(\sin \dfrac{x}{2} + \cos \dfrac{x}{2}\right)^2} = \dfrac{\cos \dfrac{x}{2} - \sin \dfrac{x}{2}}{\cos \dfrac{x}{2} + \sin \dfrac{x}{2}} = \dfrac{1 - \operatorname{tg} \dfrac{x}{2}}{1 + \operatorname{tg} \dfrac{x}{2}} = \dfrac{1 - m}{1 + m}.$