31) $\dfrac{\cos x - \sin x}{\cos x + \sin x} = \sec 2x - tg\, 2x$

$\rightarrow \dfrac{\cos x - \sin x}{\cos x + \sin x} = \dfrac{\cos x - \sin x}{\cos x + \sin x} \cdot \dfrac{\cos x - \sin x}{\cos x - \sin x}$

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

$= \dfrac{1 - 2\sin x \cos x}{\cos 2x}$

$= \dfrac{1 - \sin 2x}{\cos 2x} = \dfrac{1}{\cos 2x} - \dfrac{\sin 2x}{\cos 2x}$

$= \sec 2x - tg\, 2x$

32) $\dfrac{1 - \cos 2x + \sin 2x}{1 + \cos 2x + \sin 2x} = tg\, x$

$\rightarrow \dfrac{1 - \cos 2x + \sin 2x}{1 + \cos 2x + \sin 2x} =$

$= \dfrac{1 - (\cos^2 x - \sin^2 x) + 2\sin x \cos x}{1 + \cos^2 x - \sin^2 x + 2\sin x \cos x}$

$= \dfrac{(1 - \cos^2 x) + \sin^2 x + 2\sin x \cos x}{\boxed{1 - \sin^2 x} + \cos^2 x + 2\sin x \cos x}$