Having an Identity Crisis??

Prove the following Identities with complete solutions.

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

2. $\dfrac{\tan x}{\sin x} = \dfrac{1}{\cos x}$

3. $\cos^2 x + \dfrac{\sin x \cos x}{\tan x} = 2\cos^2 x$

4. $1 + \tan^2 x = \dfrac{1}{\cos^2 x}$

5. $(1 - \cos^2 x)(1 + \tan^2 x) = \tan^2 x$

6. $(\sin x - \cos x)(\sin x + \cos x) = 2\sin^2 x - 1$

7. $\dfrac{\sin x}{1 - \cos x} - \dfrac{1 + \cos x}{\sin x} = 0$