1. $\cot x + 1 = \csc x\,(\cos x + \sin x)$

2. $\frac{\tan x - \cot x}{\sin x \cos x} = sec^2 x - csc^2 x$

3. $\frac{\cos x}{1-\sin x} = \frac{1+\sin x}{\cos x}$

4. $\frac{1}{1-\sin x} + \frac{1}{1+\sin x} = 2sec^2 x$

5. $\cos x + \sin x \tan x = \sec x$

6. $\frac{\csc x - \sin x}{\sin x \csc x} = \csc x - \sin x$

7. $\frac{1}{\tan x} + \tan x = \frac{sec^2 x}{\tan x}$

8. $\frac{1+\sin x}{\cos x} + \frac{\cos x}{1+\sin x} = 2\sec x$

9. $\sec x + \tan x = \frac{\cos y}{1-\sin y}$

10. $\frac{cos^2 x - sin^2 x}{1 - tan^2 x} = cos^2 x$

11. $\frac{\sin x}{\cos x + 1} + \frac{\cos x - 1}{\sin x} = 0$

12. $\frac{sin^2 x + cos^2 x + cot^2 x}{1 + tan^2 x} = cot^2 x$