

$$\csc^2 \theta$$

$$\sec \theta - \tan \theta = \quad (1)$$

$$\frac{1 - \sin \theta}{\cos \theta}$$

$$= \frac{1 + \sin \theta}{\cos \theta} (2)$$

$$\frac{\cos \theta}{1 - \sin \theta}$$

$$= \frac{\cot^2 \theta}{\csc \theta + 1} (3)$$

$$\csc \theta - 1$$

$$\csc^2 \theta = \cot^2 \theta + \sin \theta \csc \theta (4)$$