Solution to #58

$$\frac{\tan^2 x}{1+\sec x} = \frac{\sec^2 x - 1}{\sec x + 1} = \frac{(\sec x + 1)(\sec x - 1)}{(\sec x + 1)}$$

$$= \sec x - 1, \quad \text{remember } \tan^2 x = (\tan x)^2$$