

Let $u = \sec(x)$

$$\frac{1}{u+1} - \frac{1}{u-1} =$$

Note: LCD = $(u+1)(u-1)$

$$= \frac{1}{(u+1)} \cdot \frac{(u-1)}{(u-1)} - \frac{1}{(u-1)} \cdot \frac{(u+1)}{(u+1)}$$

$$= \frac{(u-1) - (u+1)}{(u^2-1)}$$

$$= \frac{u-1-u-1}{(u^2-1)}$$

$$= \frac{-2}{(u^2-1)}$$

