~~Daniel DeWitte~~

(2) $\tan(\gamma) = \frac{\vec{E}_s}{\vec{E}_p}$

$$\tan(\gamma) = \frac{\frac{2 n_i \cos\theta_i}{(n_i \cos\theta_i + n_t \cos\theta_t)}}{\frac{2 n_i \cos\theta_i}{(n_t \cos\theta_i + n_i \cos\theta_t)}}$$

$$= > \frac{\frac{2\cos(30)}{\cos 30 + 1.51\cos(19.337)}}{\frac{2\cos(30)}{1.51\cos(30) + \cos(19.337)}} = \frac{\left(\frac{1.73205}{2.290842254}\right)}{\left(\frac{1.73205}{2.251285678}\right)}$$

$$\tan(\gamma) = \left(\frac{.756076}{.769360579}\right) \Rightarrow .98273537038$$

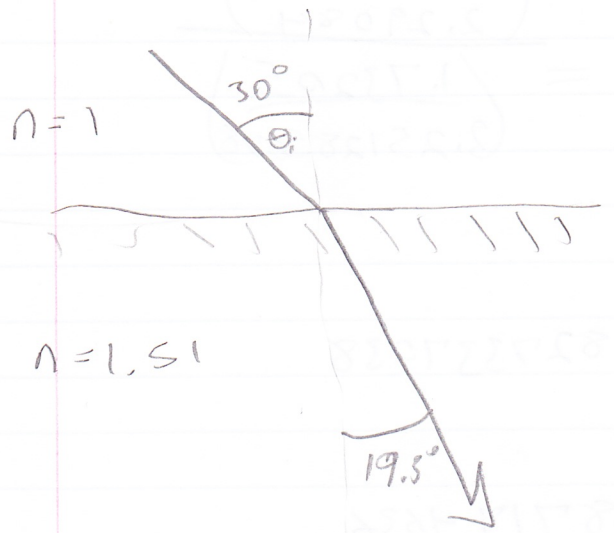
$$\frac{1.887174636}{2.251285678} \Big/ \frac{1.887174636}{2.290842254}$$

=

$$\tan(\gamma) = \frac{E_s}{E_p}$$

$$t_s = \frac{2 n_1 \cos 60}{n_1 \cos 60 + n_t \cos(19.3)} = \frac{1}{1.925} =$$

$$t_p = \frac{2 n_1 \cos 60}{\cos(19.3) + 1.51 \cos(60)} = \frac{1}{1.6988}$$



$t_s =$