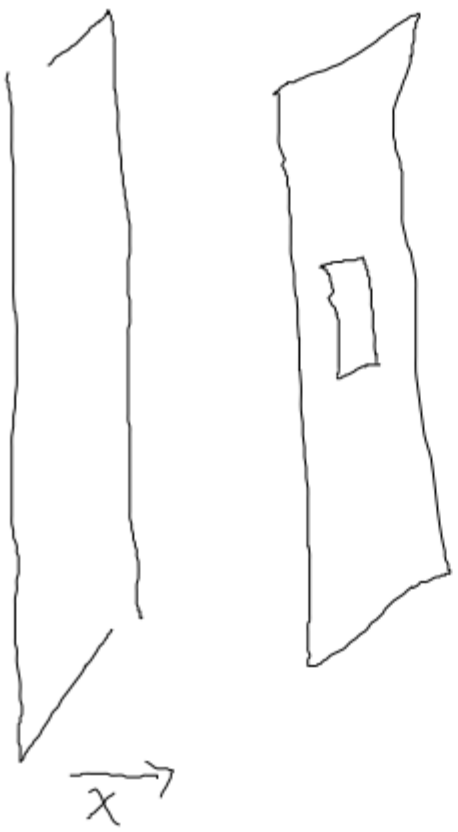

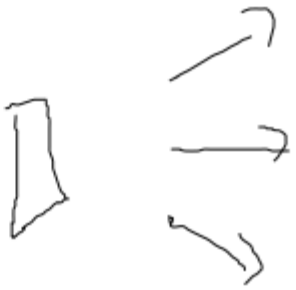

$I = V_x(t) P(t)$

100dB $\frac{I_1}{I_2} = 10^{10}$

0dB $rms(P) = 0.00002 \frac{N}{M^2}$

100dB $rms(P) = 2 \frac{N}{M^2}$

$ms(P) = [rms(P)]^2$

$V_x(t) = \frac{1}{\rho c} P(t)$ $\quad I(t) = P^2(t) \cdot \frac{1}{\rho c}$

P, V, x linear $\quad$ I, P^2

$rms(V_x) = rms(P) \cdot \frac{1}{\rho c}$

$V_x(t) = \frac{2 K/(S^2 M)}{1.22 \frac{K}{M^3} \; 343 \frac{M}{S}}$ $\quad N = \frac{KM}{S^2}$

$Pascal = \frac{K}{S^2 M}$

$\approx 0.00478 \frac{M}{S} = RMS(V_x)$ $\quad \frac{M}{S} \frac{N}{M^2} = 0.00956$

$I = 0.00478^2$ $\quad K/S$