

$f = 1/T = \text{cyc/sec}$ $v = f \lambda$ $x = v t$ $2^{(1/12)} = 1.05946$ $A_0 = 27.5 \text{ Hz}$	$M = V_0/v_{\text{sound}}$ $v_{\text{sound}} = 331 + 0.6T(^{\circ}\text{C})$ $v_{\text{sound}} \sim 340 \text{ m/s}$ $e = 1.60 \times 10^{-19} \text{ C}$ $k = 9.0 \times 10^9 \text{ Nm}^2/\text{C}^2$ $Q = ne$	$V = W/q = \text{J/C}$ $i = \Delta Q/\Delta t$ $\Delta V = i R$ $P = E/t$ $P = iV$ $P = V^2/R$	$I \Delta$ inversely with r^2 $\Delta: +10 \text{ dB} = 2x \text{ Vol} = 10x \text{ I}$ $\text{Beats} = f_1 - f_2 $ $\text{Series } R_e = R_1 + R_2$ $\text{Parallel } 1/R_e = 1/R_1 + 1/R_2$ $N_1/V_1 = N_2/V_2$	$F = k \frac{q_1 q_2}{r^2}$ $E = \frac{F}{q} = \frac{kq}{r^2}$
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