

Physics 100 Equations 2

$$T_C = T_K + 273$$

$$f = 1/T$$

$$F = k \frac{q_1 q_2}{r^2}$$

$$T_C = (T_F - 32) * 5/9$$

$$T = 1/f$$

$$E = F/q$$

$$Q = cm(T_f - T_i)$$

$$V = \lambda/T = \lambda f$$

$$V = \frac{PE_{electric}}{q}$$

$$\Delta U = Q + W$$

$$i = V/R$$

$$efficiency = \frac{T_H - T_C}{T_H}$$

$$R = \rho \frac{l}{A}$$

$$\frac{V_p}{V_s} = \frac{N_p}{N_s}$$

$$k = 9 \cdot 10^9 \frac{Nm^2}{C^2}$$

$$q_e = 1.6 \cdot 10^{-19} C$$

$$c = 300,000,000m/s$$