$c = 3.00 \times 10^{8}\ \mathrm{m/s}$

$h = 6.626 \times 10^{-34}\ \mathrm{J{\cdot}s}$

$m_\mathrm{e} = 9.11 \times 10^{-31}\ \mathrm{kg}$

$\mathcal{R} = 3.29 \times 10^{15}\ \mathrm{s^{-1}}$

$d_\mathrm{water} = 1.00\ \mathrm{g/mL}$

$1\mathrm{lbs} = 453.6\mathrm{g}$

$1\ \mathrm{gal} = 3.785\ \mathrm{L}$

$1\ \mathrm{eV} = 1.602{\times}10^{-19}\ \mathrm{J}$

$T\lambda_\mathrm{max} = \frac{1}{5}c_2$

$\nu = \mathcal{R}\left(\frac{1}{n_1^2} - \frac{1}{n_2^2}\right)$

$-\frac{\hbar^2}{2m}\frac{\mathrm{d}^2\psi}{\mathrm{d}x^2} + V(x)\psi = E\psi$

$\psi_n(x) = \left(\frac{2}{L}\right)^{\frac{1}{2}} \sin\left(\frac{n\pi x}{L}\right)$

$E_n = \frac{n^2h^2}{8mL^2} \qquad n = 1, 2, 3, \cdots$

$E_n = -\frac{h\mathcal{R}}{n^2} \qquad \mathcal{R} = \frac{m_e e^4}{8h^3\epsilon_0^2}$