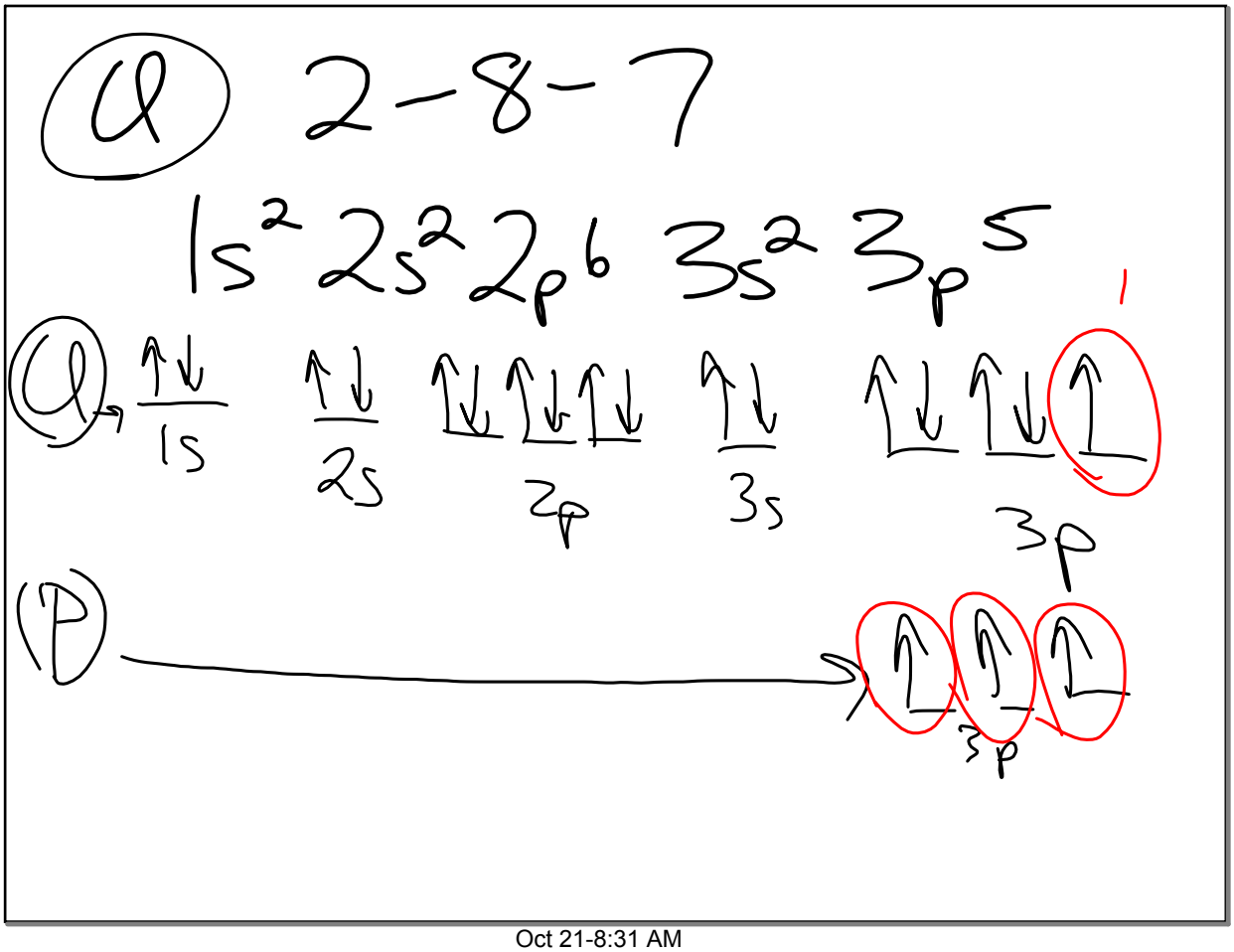
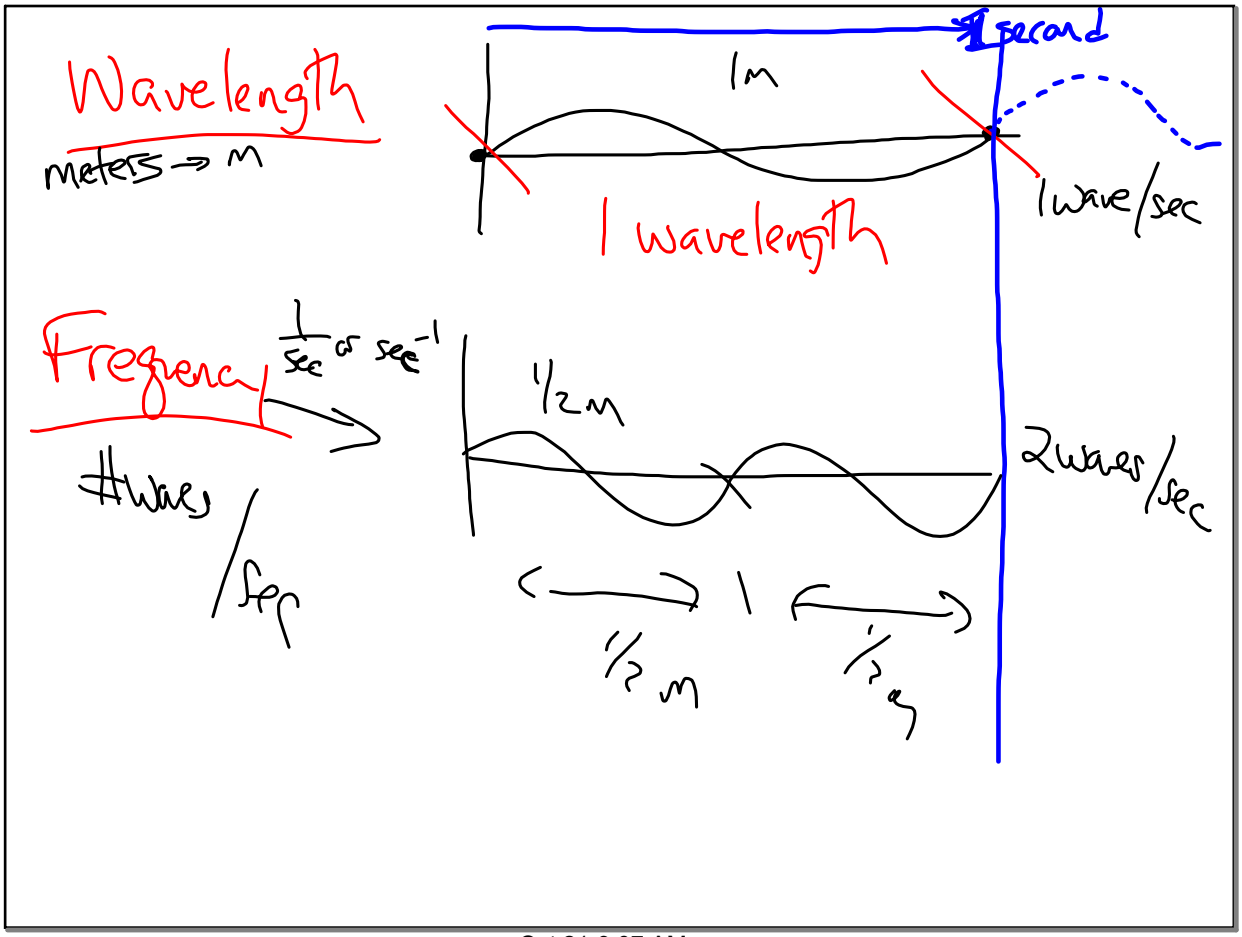


Oct 21-8:31 AM



Oct 21-9:07 AM

Fregency ↑, wavelength ↓

Constant $C = f \lambda$ ← lambda

Speed of light (constant) = fregency * Wavelength

$3 * 10^8 \frac{m}{sec} = \frac{1}{sec} * \frac{m}{1}$

Oct 21-9:22 AM

Wavelength Visible Light 400nm → 750nm

nM = nano meter

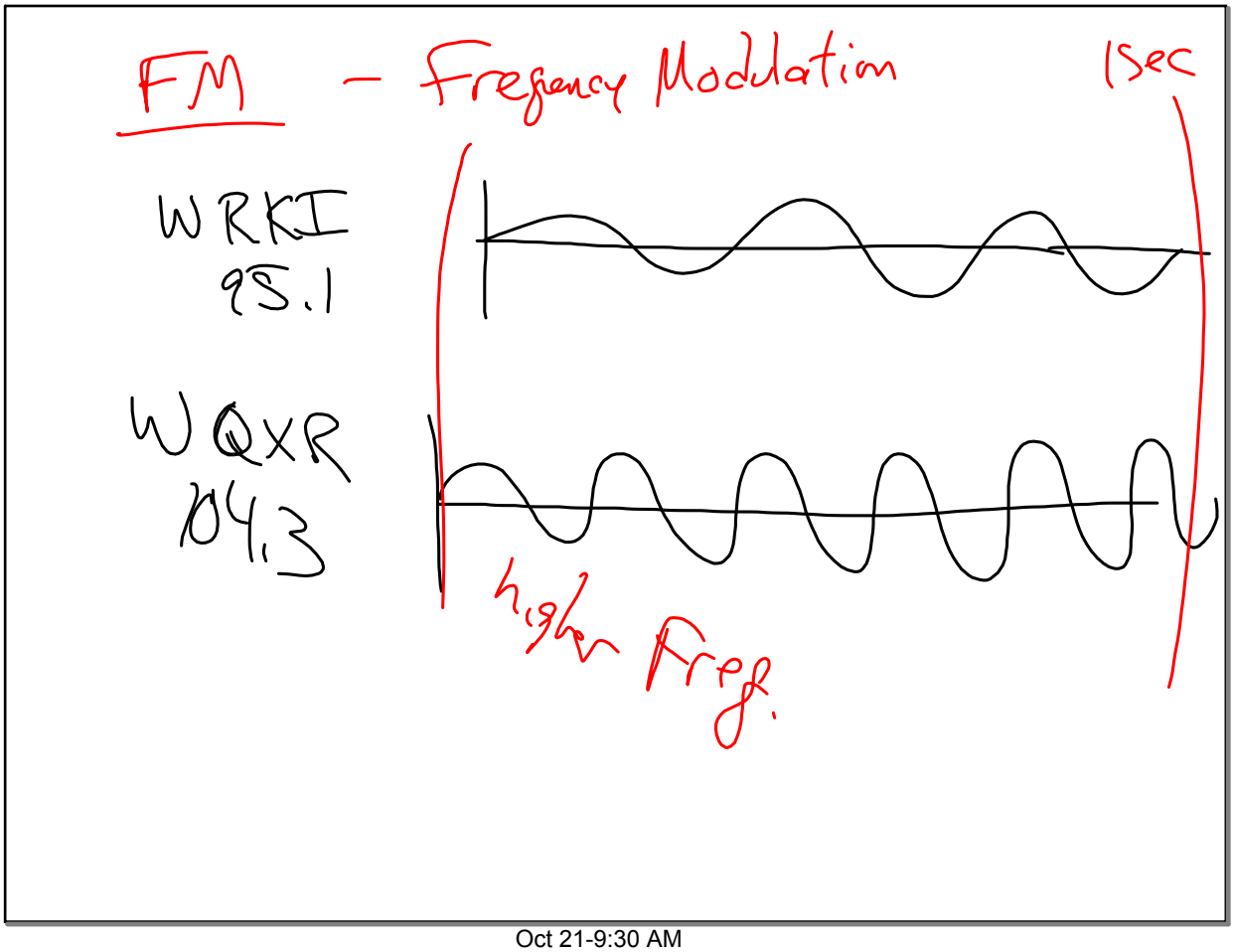
$1 nm = 10^{-9} m$

or

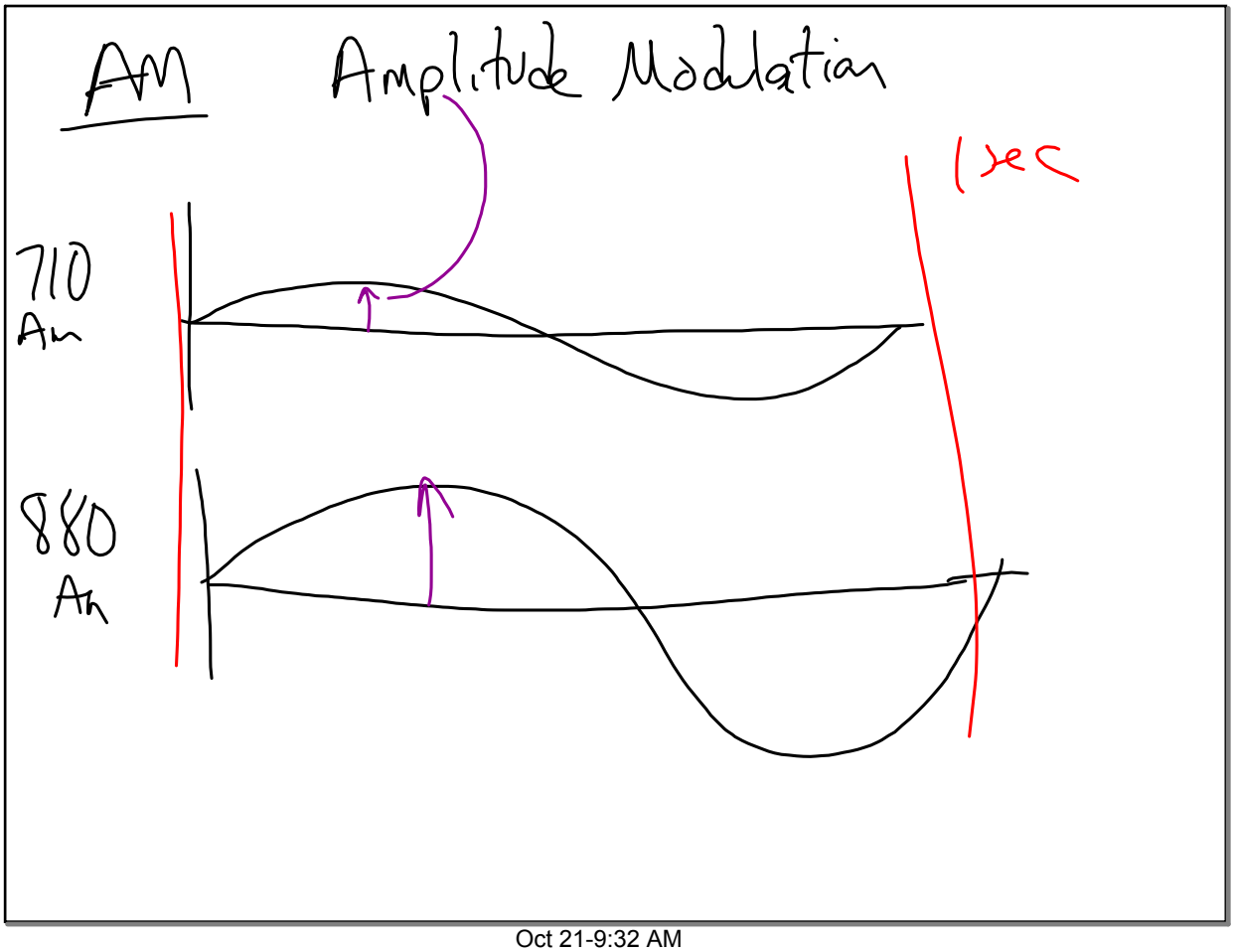
$1 m = 10^9 nm$

$1 m = 1,000,000,000 nm$

Oct 21-9:26 AM



Oct 21-9:30 AM



Oct 21-9:32 AM

$C = f\lambda$

$E = hf$

700 400 nm

R O Y G B I V

Planck's constant 6.63×10^{-34} J·sec

$E = hf$

$J = \left(\frac{J \cdot sec}{1}\right)\left(\frac{1}{sec}\right)$

Oct 21-9:34 AM