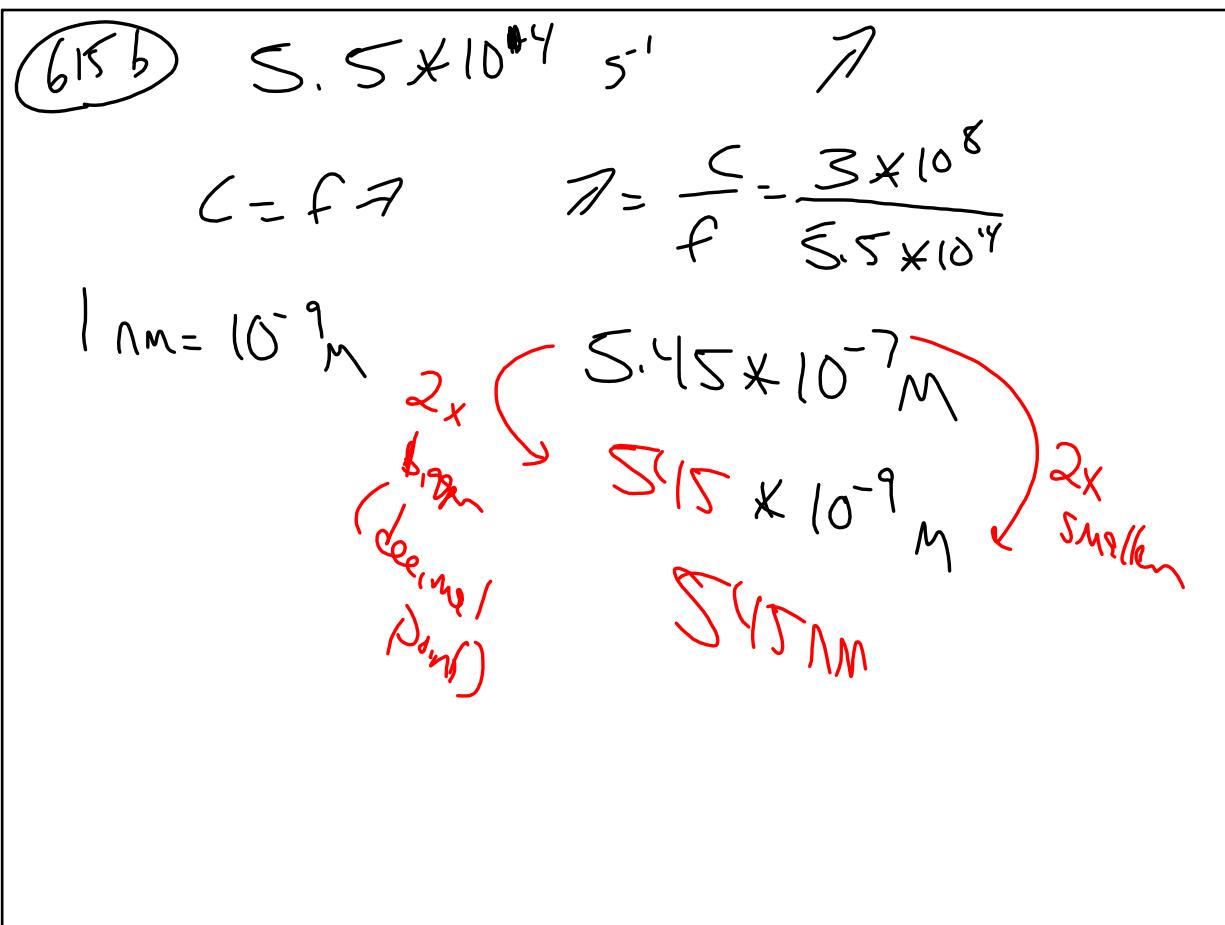


Oct 24-8:09 AM



Oct 24-8:21 AM

(61)

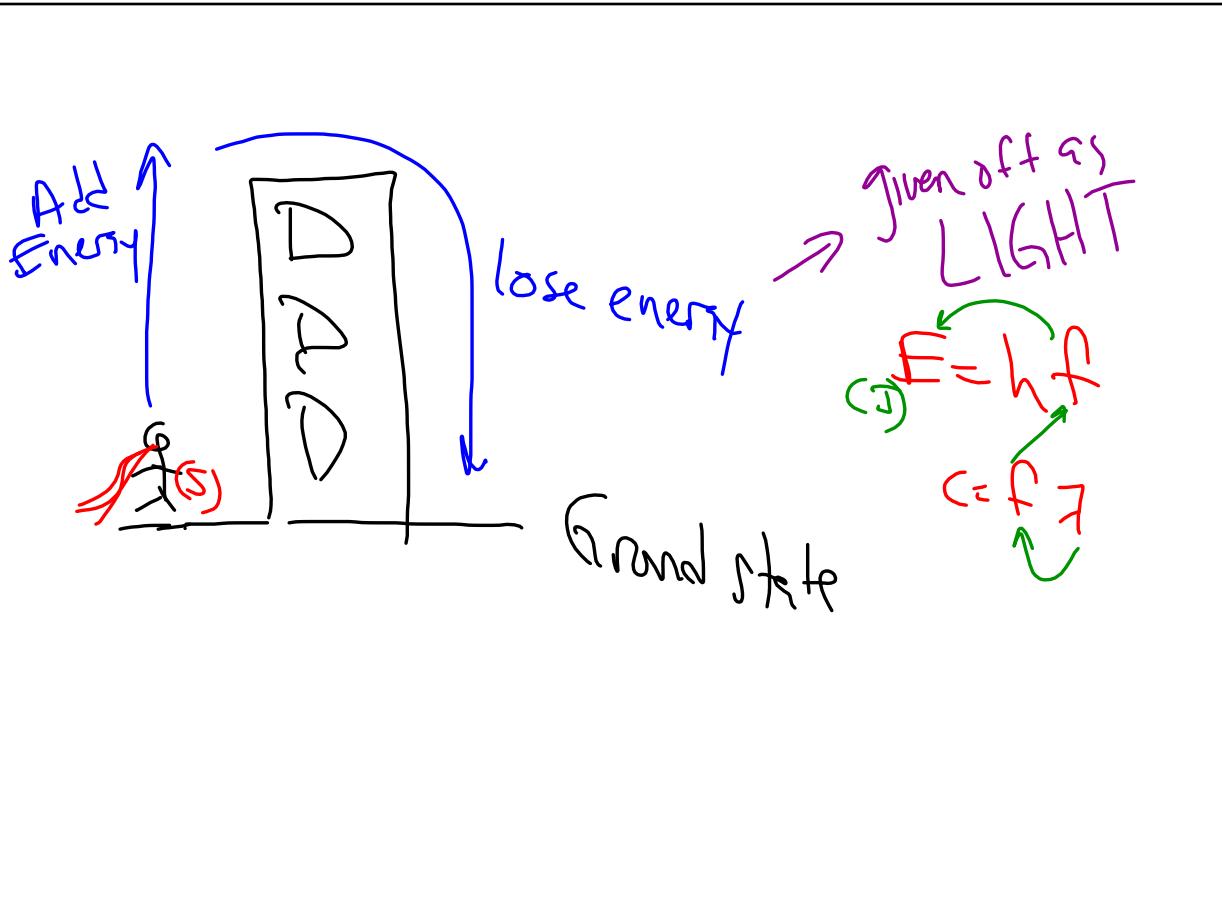
$$C = f \tau$$

$$f \text{ --- sec}$$

$$f = \frac{C}{\tau} = \frac{3 \times 10^8}{532 \times 10^{-9} \text{ s}}$$

$$\left| \begin{array}{l} 3 \times 10^8 \\ \text{sec} \end{array} \right| \quad | \quad 532 \times 10^{-9} =$$

Oct 24-8:27 AM



Oct 24-8:29 AM

Spectral lines \Rightarrow Finger Print
for that element
or compound.

Graphical analysis program
download to chromium book
 (Cr^{+3})

Oct 24-8:34 AM

$$E = R_H \left(\frac{1}{n^2} \right)$$

$2.18 \times 10^{-18} \text{ J}$

↓

Energy (J)

NRG

Principal quantum #

energy level

(Shell the e^- is in)

pathways

Rhydberg constant

Oct 24-8:37 AM

$$\Delta E = R_H \left(\frac{1}{n_i^2} - \frac{1}{n_f^2} \right)$$

$\Delta E = R_H \left(\frac{1}{n_i^2} - \frac{1}{n_f^2} \right)$

$E = h\nu$

$E = h\nu \rightarrow \text{color}$

$E = R_H \left(\frac{1}{n_i^2} \right)$

$E_2 = R_H \left(\frac{1}{n_2^2} \right)$

$E_1 - E_2 = \left[R_H \frac{1}{n_1^2} \right] - \left[R_H \frac{1}{n_2^2} \right]$

$\Delta E = R_H \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$

Oct 24-8:40 AM

$$E_1 = R_H \left(\frac{1}{n_1^2} \right)$$

$$E_2 = R_H \left(\frac{1}{n_2^2} \right)$$

$$E_1 - E_2 = \left[R_H \frac{1}{n_1^2} \right] - \left[R_H \frac{1}{n_2^2} \right]$$

$$\Delta E = R_H \left(\frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

Oct 24-8:43 AM

6/3ij
q+
, 41
q+b

Oct 24-8:47 AM