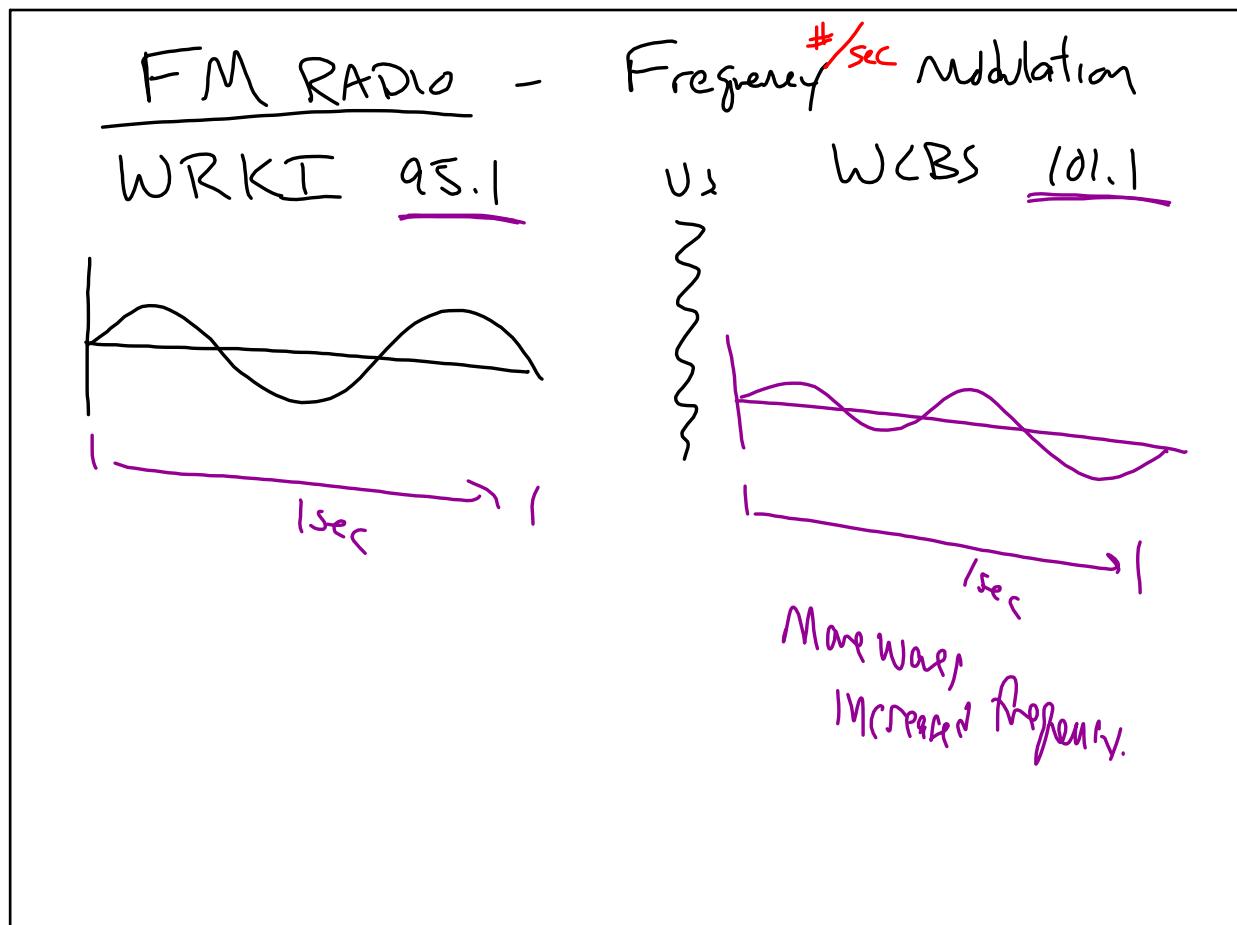
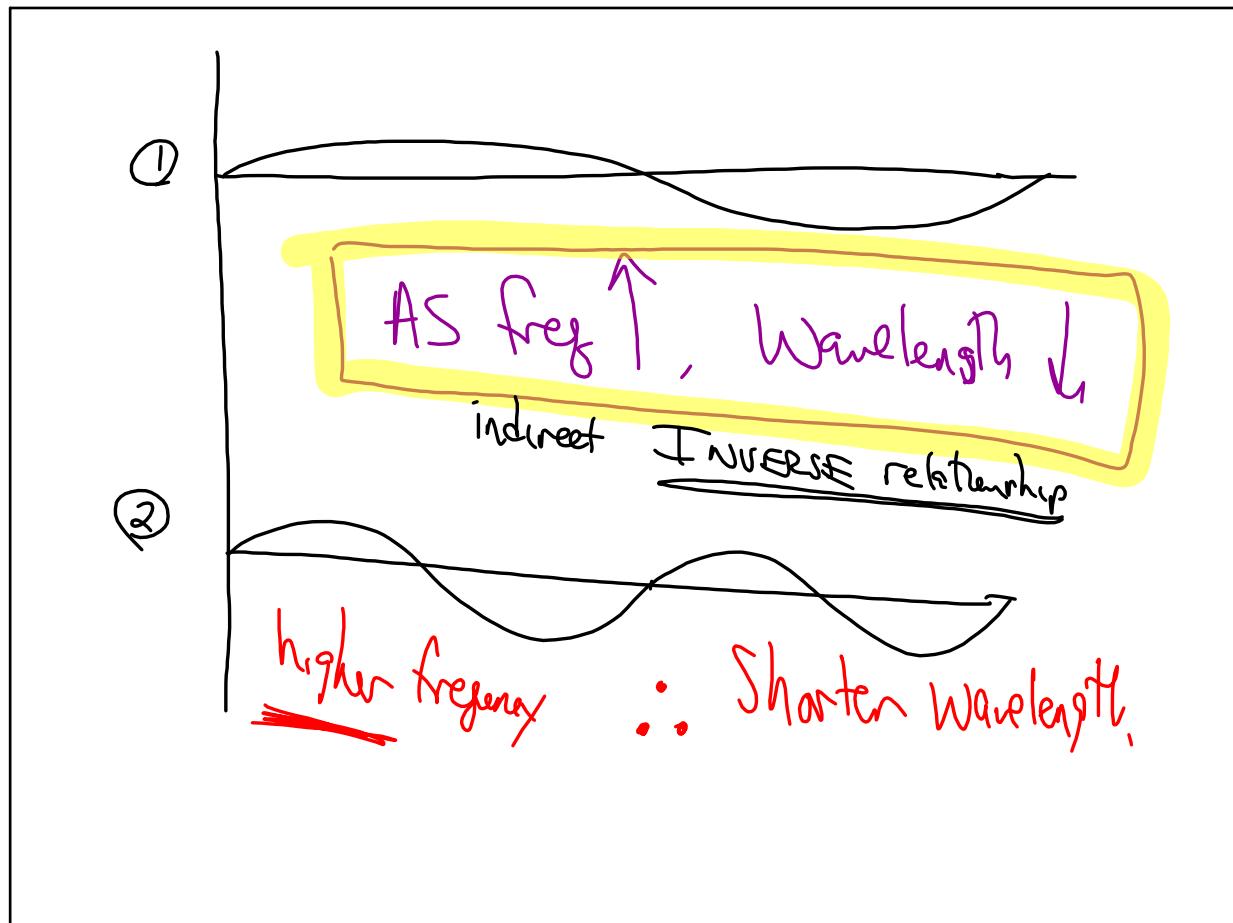


Oct 29-8:03 AM



Oct 29-8:18 AM



Oct 29-8:24 AM

Speed of Light

$$3 \times 10^8 \frac{\text{m}}{\text{sec}} = c = f \lambda$$

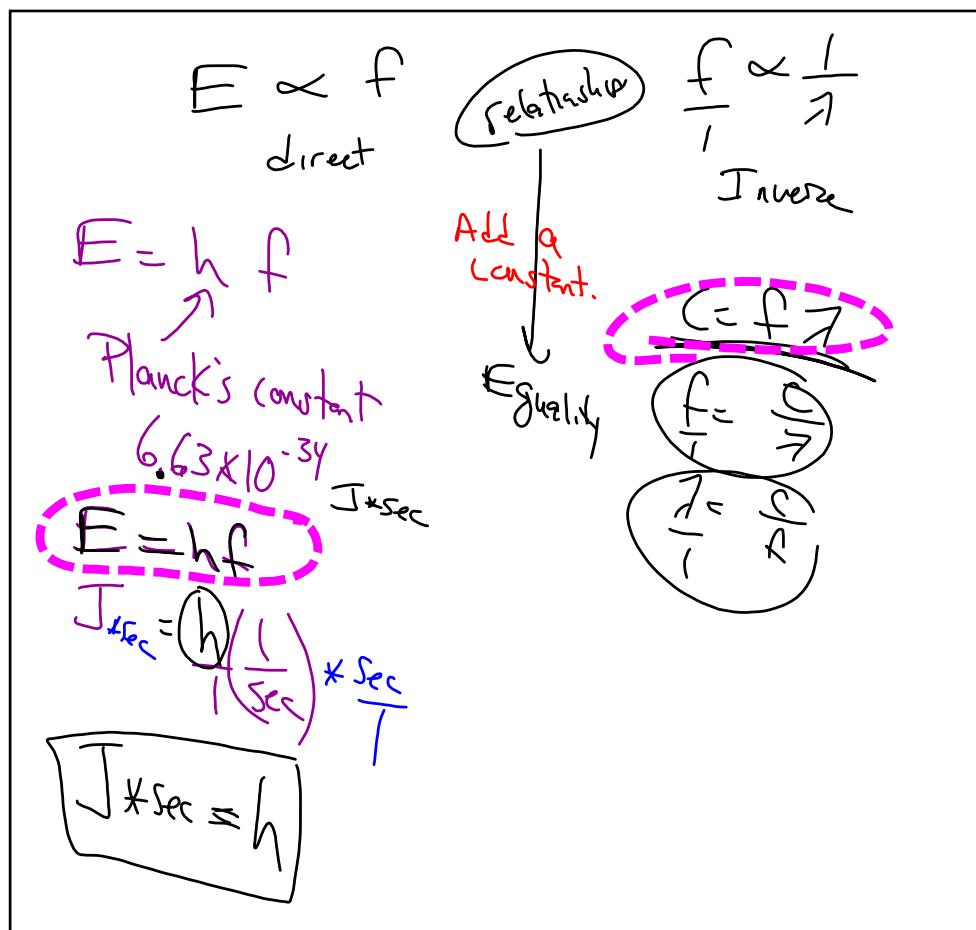
frequency $(\frac{1}{\text{sec}})$ or (Sec^{-1})

LAMBDA
Wavelength (m)

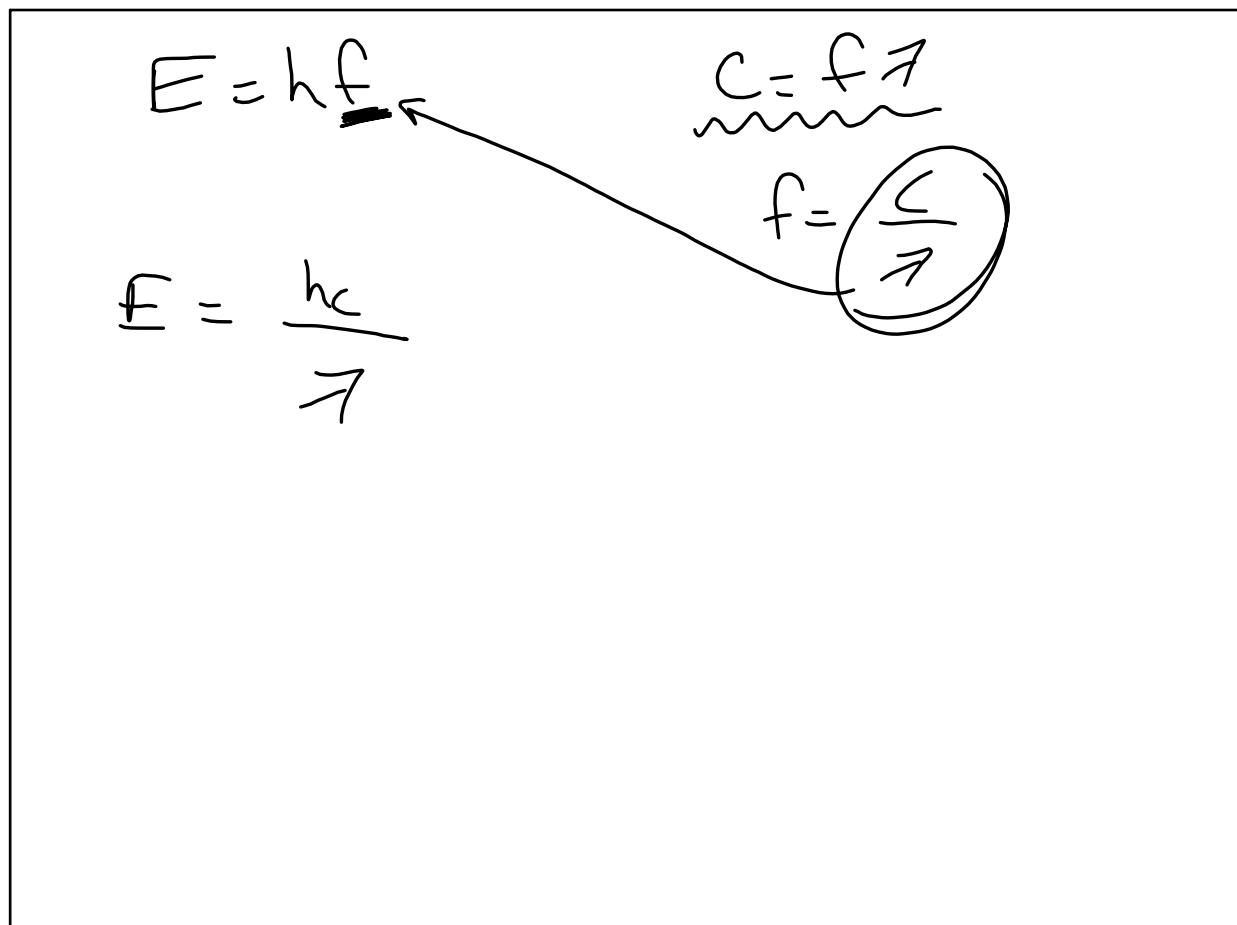
$\frac{x^3}{t} = \frac{1}{x^3}$

1

Oct 29-8:29 AM



Oct 29-8:35 AM



Oct 29-8:38 AM

Light - 589 nm $f = \frac{5.09 \times 10^{14}}{\text{sec}}$

$c = f \lambda$

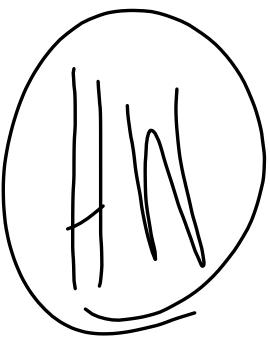
$3 \times 10^8 = f (589 \times 10^{-9} \text{ m})$

$f = 5.09 \times 10^{14} \text{ Hz}^{-1}$

$E = \frac{3.37 \times 10^{-19}}{\text{J}}$

$E = hf$

Oct 29-8:40 AM



$b / 15 + 16$

Oct 29-8:46 AM