Unid Conversions For Circular/Sinusoidal Motion In general 2 Tradions = | cycle \rightleftharpoons 1 = $\frac{2\pi radions}{1 cycle}$ angular wrads/s fracycles/socool $w = \frac{2\pi radions}{rads}$ W = 27 (rads) f (regote) Then of course $S = \frac{1}{T}$ 50 $\frac{2\pi}{T} = \omega \iff \frac{2\pi}{\omega} = T$ What aelased spacial quantities? Rarads/m 2 ~ wavelength (meters /cycle) Convesion 2T = k Sometimes you may see someone define "wavenombes" which are defined as $V = \frac{1}{Z}$ and are often in units of cm. This is very common in inlessed and roman spectroscopy. Those spectroscopies are related to the "vibrational states" of molecules and find applications in chamical gos detection. Indownantation

for Ranon and Infored spectroscopy uses were numbers (om-1). The relative locations of peaks is related to