## ACT: Spectral Line Wavelengths

Compare the wavelength of a photon produced from a transition from n=3 to n=2 with that of a photon produced from a transition n=2 to n=1.

(1) 
$$\lambda_{32} < \lambda_{21}$$
 -  
(2)  $\lambda_{32} = \lambda_{21}$  -  
(3)  $\lambda_{32} > \lambda_{21}$ 



