

- The last stretch! Stay STRONG! :)
- Atmospheric refraction – basics
- Where does the atmosphere start, and how do we know?
- Snell's law of refraction ...
- ... applied to our atmosphere
- Refraction correction for  $\zeta < 45^\circ$
- Refraction correction for  $45^\circ < \zeta < 75^\circ$
- Horizontal refraction
- The change in hour angle due to horizontal refraction; Villanova example
- Effect of refraction on right ascension and declination
- Precession and nutation – basics
- Breathe deeply... this will be a tough cookie (picture) to swallow (draw)...
- The effect of precession on right ascension and declination
- The effect of nutation on right ascension and declination
- THAT'S IT, FOLKS! No more spherical astronomy (except for the exam)! :)