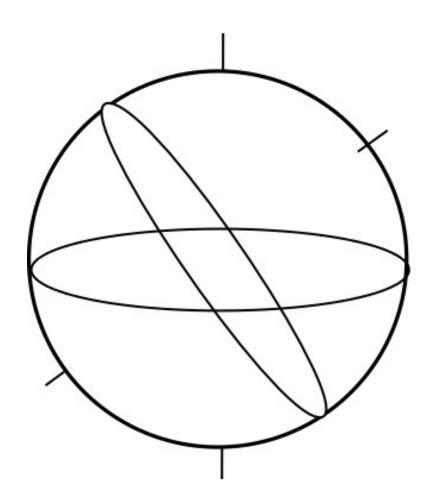
Exercise: The Celestial Sphere

- I. Draw a celestial sphere with all of the following labeled:
 - 1. a horizon (orient it horizontally)
 - 2. the North Celestial Pole (NCP) for a person at about 40° latitude
 - 3. the celestial equator (CE) (again for lat=40°)
 - 4. the SCP
 - 5. a stick figure representing the person
 - 6. a star with an arrow showing its motion in an hour.
 - 7. the zenith (Z) and nadir (N)
 - 8. the celestial meridian (CM)
 - 9. the cardinal points (N,S,E,W)



1. How many coordinates are needed to describe a star's position?	
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2. What are the names of these coordinates i	for the equatorial	
coordinate system?	_ and	
For the altazimuth coordinate system? _		and

3. What are the units of these coordinates?

1 st Equatorial:	2 nd Equatorial
1 st Altazimuth:	2 nd Altazimuth

4. Using the Cel. Sphere below, draw on the CE, NCP and ecliptic. Label where RA, DEC are (0,0), and Label where Alt, Az are (0,0).

