

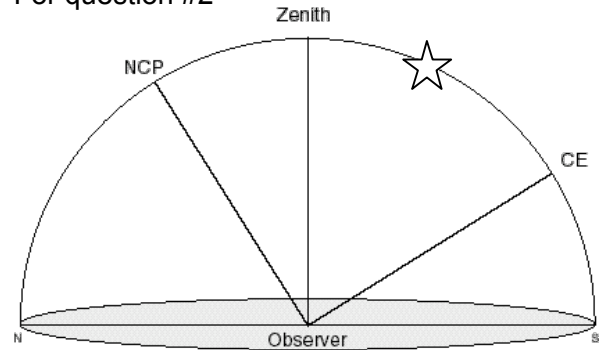
AST101 Quiz #7

Due November 23

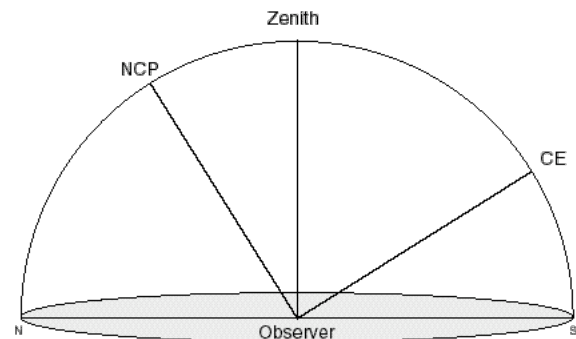
Name: _____

1. The angular distance between the zenith and the celestial equator (CE) (measured along the meridian) is equivalent to:
 - a) declination
 - b) altitude
 - c) longitude
 - d) latitude
2. Using the diagram at upper right, the zenith distance of the object (star) is approximately how many degrees?
 - a) 90°
 - b) 60°
 - c) 45°
 - d) 30°
3. The zenith distance of the North Celestial Pole (NCP) is measured to be 35° . The latitude of the location is:
4. The altitude of an object on the CE when it is due south is measured to be 65° . The latitude of that location is:
5. A transiting object (on meridian) that resides on the celestial equator has a zenith distance measured to be 40° . The latitude of the location is:

For question #2



Use diagram below for scratch, as needed.



6. The sun's midday altitude on September 21 (Autumnal Equinox) is measured to be 30° . The latitude of the location is:

BONUS QUESTION (no penalty if wrong)

The altitude of a transiting star is measured to be 43° . The star has a declination of -15° . What is the latitude of the location?