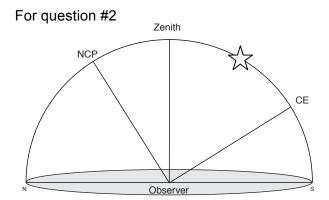
AST101 Take-home #9

Due November 20

Name:		

- 1. The angular distance between the zenith and the celestial equator (CE) (measured along the meridian) is equivalent to:
 - a) Altitude of the NCP
 - b) Zenith distance of the NCP
 - c) Altitude of the CE
 - d) None of the above
- 2. Using the diagram at 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 20°. The latitude of the location is:
- 4. The altitude of an object on the CE when it is due south is measured to be 50°. 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 25°. The latitude of the location is:

- 6. The sun's midday altitude on March 21 (Vernal Equinox) is measured to be 30°. The latitude of the location is:
- 7. The altitude of a transiting star is measured to be 30°. The star has a declination of -15°. What is the latitude of the location?



Use diagrams below for scratch, as needed.

