

The Sky.

1. The celestial equator is
 - a) The path of the sun compared with the stars
 - b) The path of the moon compared with the stars
 - c) always directly overhead at the Earth's equator
 - d) always on the horizon for observers at the Earth's equator

2. The distance of Polaris from the zenith
 - a) is always 90 degrees
 - b) is always 23.3 degrees
 - c) is always 0 degrees
 - d) varies with your latitude

3. If a planet had its rotation axis perpendicular to its orbital plane, its seasons would
 - a) depend on the distance from the sun
 - b) be non-existent
 - c) be shorter than on Earth
 - d) be longer than on Earth

4. Star A has a magnitude of -1 and star B has a magnitude of $+1$, so star A is
 - a) about twice as faint as star B
 - b) about twice as bright as star B
 - c) about 2.5 times as faint as star B
 - d) about 6 times brighter than star B