ASTRONOMY UNTI 1

Name :		
Period:	Date:	

HOMEWORK

C. -1.0 and magnitude -3.0 D. +1.0 but not magnitude -1.0.

This homework is due at the end of the unit.
 Write the letter of the correct answer in the blank to the left of the question.
1. Earth rotates 360° when viewed looking down at the North Pole.
A. clockwise (east-to-west)
B. counterclockwise (west-to-east)
2. To an observer on Earth, the celestial sphere appears to rotate around Polaris
A. clockwise
B. counterclockwise
3making the seasonal stars rise in the and set in the
A. east/west
B. west/east
4. The stars appear to move 1° than 360° in one 24-hour solar day.
A. more
B. less
5. Which of the following stars will be circumpolar for an observer at latitude 40° North
In the blank to the right, list all letters that apply.
A. α Ursae Majoris
B. β Cassiopeiae
C. η Ursae Majoris
D. β Persei
E. α Draconis
6. Using the star list from question five, which of the stars will be circumpolar for an
observer at latitude 30° North?
7. A star of magnitude equal to +2.0 will be brighter than a star of magnitude
A. +3.0 but not magnitude +1.0.
B. +1.0 but not magnitude +3.0.

Questions 8 - 13 refer to a location where P_N is 60° above the northern horizon. ___ 8. What is the observer's latitude? A. 60° B. 45° C. 30° ____ 9. How high above the southern horizon is the celestial equator? A. 60° B. 45° C. 30° 10. The stars will rise in the east and set in the west at an angle of _____ to the southern horizon. A. 60° B. 45° C. 30° ___ 11. Circumpolar stars will lie within a circle of radius ____ to P_N. A. 60° B. 45° C. 30° ____ 12. At this latitude there will be _____ circumpolar stars than at latitude 20° North. A. more B. less __ 13. At this latitude, there will be _____ different stars visible in the year than at latitude 20° North. A. more B. less