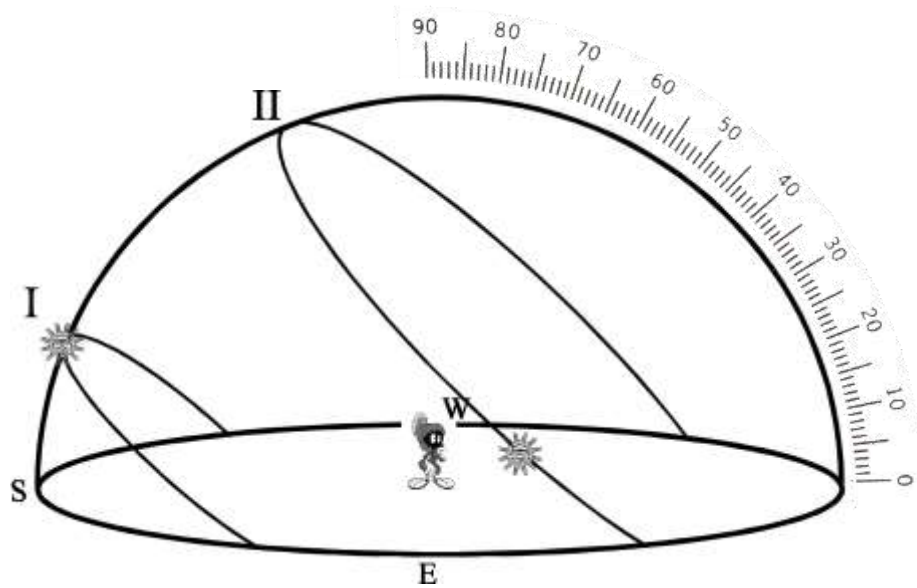


Celestial Sphere Observations Practice



1. What is the approximate altitude of the Sun on path I? _____
2. What is the azimuth of the Sun on path I? _____
3. What is the approximate time of day when the Sun is at its position on path I? _____
4. What direction would the Sun rise on the date represented by path I? _____
5. What is the azimuth of the Sun on path II? _____
6. What is the approximate time of day when the Sun is at its position on path II? _____
7. What direction would Marvin's shadow point when the Sun is at its highest point on arc path I? _____
8. Which would give Marvin a longer shadow: the noon Sun on path I or the noon Sun on path II? Explain your answer.

9. If this diagram represents observations made from NYC, plot the approximate location of Polaris on the celestial sphere.