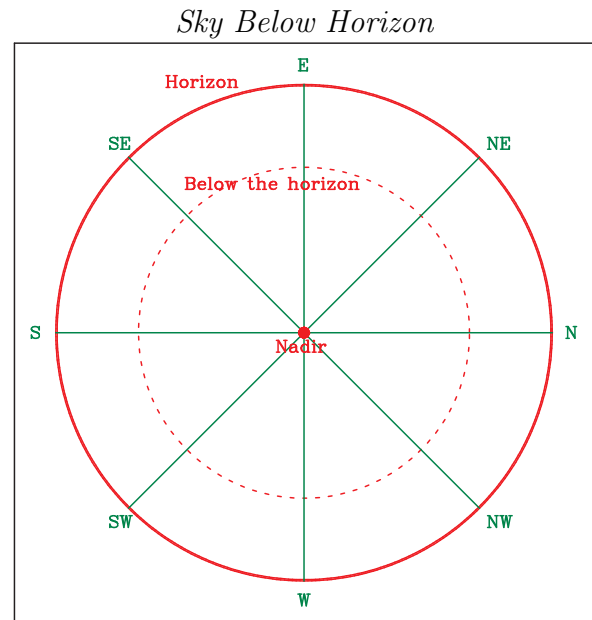
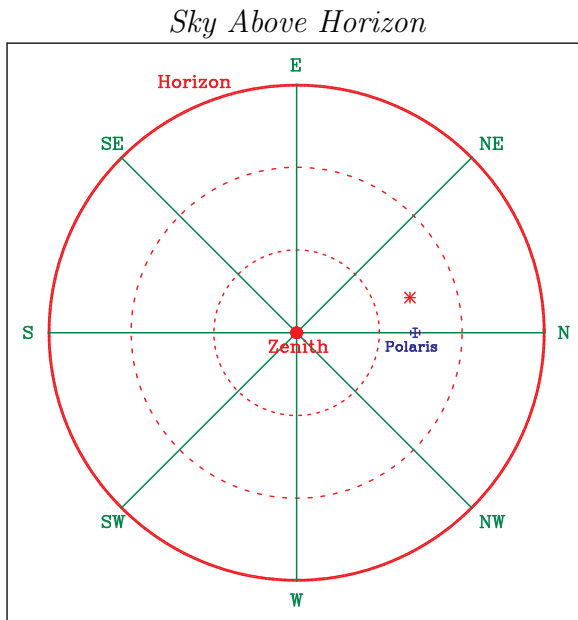


# HOMWORK QUIZ 1 - STELLAR MOTION

Name: \_\_\_\_\_

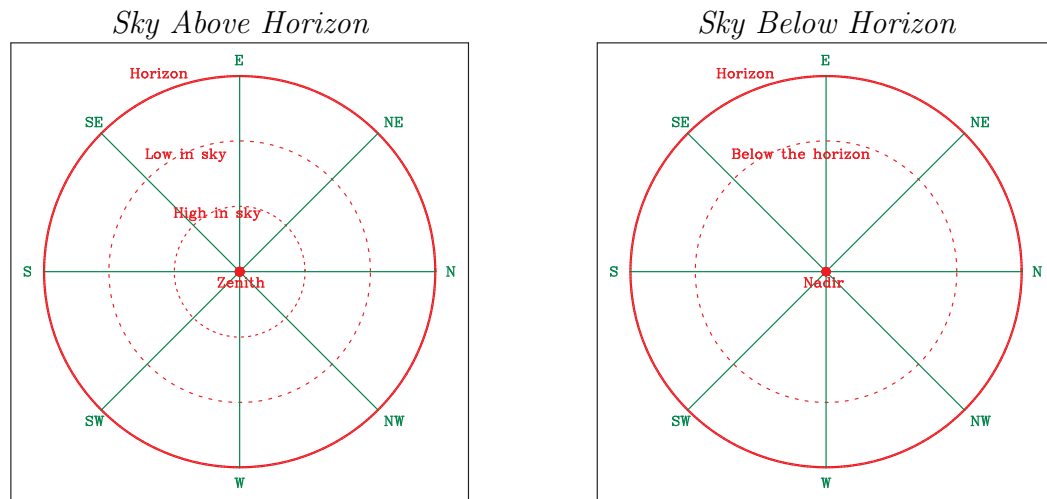
*Instructions: Answer the question on the front and the two questions on the back.*

1. Someone in Syracuse sees a star directly east of Polaris at 9 PM, as shown on the diagram as a red starburst. The position of Polaris in Syracuse is also shown. *Note that these diagrams have the east/west typo corrected, so you don't need to do that.*



Draw the path of that star. Then label its position at 3 AM.

2. Where would an observer in Rio de Janeiro, Brazil (latitude  $23^{\circ}S$ ) find the North Celestial Pole? Where would they find the South Celestial Pole? (You may describe clearly in words and/or label on the diagrams.)



3. As seen from Syracuse (latitude  $43^{\circ}S$ ), the star Deneb is almost always in the sky; it dips below the northern horizon for only a few hours each day.

How would someone in Reykjavik, Iceland (latitude  $64^{\circ}N$ ) see Deneb move? Draw its path on the diagrams below.

