Instructions

1. Do not open the exam envelop yourself.
2. This part of the exam consists of 7* problems located in separate exam stations.
3. You have 5 minutes to complete each problem.
4. After "out of time" is signaled, stop all actions and remain at the same station.
5. After "next station" is signaled, proceed to the next exam station and hand the exam envelope to the station's proctor.
6. Use only blue pen to mark into the answer sheets provided. Any answers written in the answer sheet at the end of timer is considered final and will be graded towards the final score.

* Number of problems will be reduced to 5 if night observation was successful

P3: Analemma on another planet

Instruction: Find the Obliquity (Axial Tilt) of the planet

Included:

- A generated analemma (position of a Star taken from the surface of a planet with interval separated by mean solar day of the planet over an orbital period around a Star) of a fictitious planet orbiting around a Star.
- Result is graphed on a paper with each major grid representing 5°

The obliquity of the planet : _____

Analemma on Planet X

