1. The Moon’s solar and sidereal periods (a period is a length of time) are defined in a similar way as the Earth’s solar and sidereal days.

   A lunation is defined as the time between consecutive New Moon phases. It is the solar period of the Moon, and equal to 29.5 days.

   The Moon’s sidereal period is 27.3 days. The sidereal period is defined as the time required for the Moon to make an exact 360° orbit around the Earth.

   Your task is to draw a diagram illustrating (i) the lunation of 29.5 days, and (ii) the sidereal period of 27.3 days. Make sure your diagram is well-labelled, like the ones drawn in class. Use proper construction devices, like ruler and compasses. Free-hand diagrams will be penalized.

   Calculate the angle (it will be larger than 360°) that the Moon has to travel through during one complete lunation. Write a few sentences of explanation as to why you chose (or how you calculated) this angle. Be sure to identify this angle on your diagram.

Requirements for a good assignment

- The assignment will be graded strictly, as expected for a university-level course. The assignment is graded out of 30 points.
- Have your name, SID, and a word count at the top of the paper. Use question-and-answer format when writing your assignment, do NOT hand in a run-on paragraph (50% penalty).
- Be typed, double-spaced, of maximum length 250 words. Assignments longer than 250 words will receive zero credit.
- Use quotations only to illustrate your point, not to make it. If you are unclear about this requirement, then speak with the instructor.
- Show completeness of information, conciseness of expression, have a logical development of ideas, and evidence of thought regarding the content.
- Be professional of presentation, e.g., no ragged ends, creases, or ink blobs on the paper.
- If you reference any written sources at all, then you must give a bibliographic entry.
- In all ways, the author should show pride in his/her work.