

Name _____

Section _____

EXERCISE 10 PROBLEMS—PART II

Using the analemma, answer the following questions:

1. Determine how much the declination of the Sun changes during the following 10-day periods.

Period	Beginning Declination (to nearest $\frac{1}{2}^\circ$)	Ending Declination (to nearest $\frac{1}{2}^\circ$)	Total Latitude Change in Degrees (°)
12/12 to 12/22			
1/15 to 1/25			
3/20 to 3/30			

2. Based on your calculations in problem 1, as well as your general observations of the analemma, answer the following questions:

- (a) During which two times of the year (six months apart) is the declination of the Sun changing most rapidly from one day to the next? (You may name the two months of the year when declination changes most rapidly, or name the two special days of the year around which declination changes most rapidly.)
- (b) During which two times (or months) of the year (six months apart) is the declination of the Sun changing most slowly?

3. Solar altitude and length of day are related to the declination of the Sun. Using the analemma and your answers for problems 1 and 2 for reference, answer the following questions:

- (a) How much does the solar altitude in your city change over the following 10-day periods? (Hint: No new calculations are necessary; see your answers to problem 1.)

12/12 to 12/22: _____

3/20 to 3/30: _____

- (b) During which two times of the year (six months apart) does solar altitude and length of day change most rapidly from one day to the next?

- (c) During which two times of the year (six months apart) does solar altitude and length of day change most slowly?

4. It is May 5 and you are somewhere in the Northern Hemisphere. If you determine that the noon Sun is 51° above your southern horizon, what is the latitude of your location?

Physical Geography Laboratory Manual Answers Exercise

Victor M. Corman



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