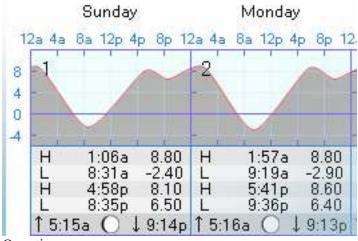
M48C/Schoenbrun Section 8.1: Introduction to Periodic Functions

Below is a graph of a tide chart:



Questions:

- 1. Is tide a function of time? Describe how you know.
- 2. Determine if the tide function, H(t), appears to be **periodic** in nature. How do you know?
- 3. What is the **period** of the tide function?
- 4. What is the **frequency** of the tide function?
- 5. What is the **amplitude** of the tide function?
- 6. What is the **range** of the tide function?
- 7. What is the **midline** of the function?

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Here is a table of data:

Х	0	1	2	3	4	5	6	7	8	9	10
Y	2	10	14	2	10	14	2	10	14	2	10

1. Is Y a function of X? Describe how you know.

- 2. Determine if the function Y(X), is periodic in nature. How do you know?
- 3. What is the period of Y?
- 4. What is the frequency of Y? If X has the units of seconds, what does the frequency tell us?
- 5. What is the amplitude of Y?
- 6. What is the range of Y?
- 7. What is the midline of the function?