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ece103L Thursday Section
Lab 1 report
Due: 4/13/2023

P1

- Uses `mod()` function with the second argument set to 2 in order to only choose the even elements of `x`.

P2

- Uses 2 for loops to compute

P3

- `max_t` has the same answer for different values of `omega` as amplitude of the function it is applied to will not exceed $e^{1.2}$, which is smaller than 10

P4

- For loop computes values one index at a time
- Conditional statements within for loop to handle finding min, max, and update array of indices over 4.
- Uses array concatenation to update array of indices over 4

P5

- Makes time access discrete by setting it as a 1d vector
- `s1`, `s2`, `s3` are initialized as 1d vectors of zeros same size as time vector
- For loop used to compute values one index at a time

P6

- Defines a function which handles 1d vector inputs and outputs `x`, `y` to handle the problem