

1. [12 points] Below is a graph of periodic, odd function h(t), with period 6:

b. [3 points] Another **new** function $w(t) = 3h(t-1) \dots$

- ... has period: _____
- ... is (CIRCLE ONE) ODD EVEN NEITHER
- ... has maximum value: _____

This problem continues on the next page.



The graph of h(t) is reproduced here for your convenience.

- c. [6 points] Carry out the following sequence of transformations to the graph of h(t). Draw each intermediate graph on the provided axes. Clearly label at least three specific, known points in each graph.
 - 1. Shift the graph of h(t) up by 1 unit.



2. Reflect the resulting graph over the t-axis.



Call the function in the final graph k(t). What is a formula for k(t) in terms of h(t)?