

5. [12 points] *Note: You do not have to show any work on this page.*

a. [6 points] If $(2, -6)$ is a point on the graph of $y = h(x)$, find a point on the graph of each of the functions below.

(i) (_____, _____) is a point on the graph of $y = h(2x)$.

(ii) (_____, _____) is a point on the graph of $y = h(-x) + 1$.

(iii) (_____, _____) is a point on the graph of $y = -3h(x - 1)$.

b. [6 points] Some data for functions g and k is provided in the table below. Use this data to answer the questions that follow.

x	1	2	3
$g(x)$	4	-1	-2
$k(x)$	5	4	1

(i) If $g(x)$ is an even function, find $g(-2)$.

Answer: $g(-2) =$ _____

(ii) Let $m(t) = 2k(-t + 1)$. Find $m(-2)$.

Answer: $m(-2) =$ _____

(iii) Let $n(x) = k(x - 1)$. If $n(x)$ is an odd function, find $k(-3)$.

Answer: $k(-3) =$ _____