

1. [16 points] Use the table to compute the following quantities. The function $h(x)$ is **odd**, **twice differentiable**, and $h'(x) > 0$ for all x -values. Write your answer using exact form on the blank provided. If there is not enough information available to answer the question, write N.I. You need to evaluate all integrals, but you do not need to simplify your final answer.

x	0	1	2	3	4
$h(x)$	0	2	4	5	7
$h'(x)$	7	3	4	7	2

a. [4 points] $\int_3^4 \frac{h''(t)}{h'(t)} dt$

Answer: _____.

- b. [4 points] The average value of $h'(x)$ on $[-1, 1]$

Answer: _____.

c. [4 points] $\int_1^4 (w+1)h''(w) dw$

Answer: _____.

d. [4 points] $\int_{1/2}^2 x^{-1/2}h'(\sqrt{2x}) dx$

Answer: _____.