- **2**. [18 points] The table below provides some values for the functions h and H, where
 - h(t) is an **odd** function, with continuous first derivative.
 - H(t) is an antiderivative of h(t).

t	1	2	3	4	5
h(t)	-8	1	-2	4	$\sqrt{\pi}$
H(t)	-3	0	-5	3	6

Use the table above to compute the following integrals. Write your answers using **exact** form on the blank provided. If there is not enough information to answer a question, write "N.I." Evaluate all integrals. You do not need to simplify your answers, but the letters h or H should not appear in your final answers.

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

b. [4 points]
$$\int_3^2 th'(t) dt$$

Answer:

c. [4 points]
$$\int_{1}^{2} \frac{\cos((h(t))^{\frac{1}{3}})}{(h(t))^{\frac{2}{3}}} h'(t) dt$$

Answer:

d. [6 points]
$$\int_{2}^{5} \frac{h(t)}{1 + (h(t))^4} h'(t) dt$$

Answer:

Answer: