1. [12 points] The two continuous functions $g(x)$ and $h(x)$ have the following properties.

- $\int_{-2}^{4} g(t)\ dt = 11$

- $\int_{-1}^{2} g(t)\ dt = 5$

- $\int_{-0.5}^{1} g(t)\ dt = 3$

- $g(x) = 7$ on the interval $[4, 6]$

- $H(5) - H(1) = -3$, where $H(x)$ is an antiderivative of $h(x)$

- $\int_{-2}^{2} h(x)\ dx = 6.$

- $\int_{5}^{14} h(x)\ dx = 15$

- $\int_{-\infty}^{2} h(x)\ dx = 20.$

Calcuilate the following values. Write "DIVERGES" if appropriate.
If there is not enough information provided to find the exact value, write "NOT ENOUGH INFO."
You are not required to show your work on this problem. However, limited partial credit may be awarded based on work shown.

a. [3 points] $\int_{-2}^{6} g(x)\ dx$

Answer: _____

b. [3 points] $\int_{-1}^{2} g(2x)\ dx$

Answer: _____

c. [3 points] The average value of $h(x)$ on the interval $[1, 5]$

Answer: _____

d. [3 points] $\int_{-2}^{\infty} h(-x)\ dx$

Answer: _____