1. [15 points] Below are a table of values for a function $f(x)$ which is **odd** and twice differentiable.

x	0	1	2	3	4
$f(x)$	0	2	-1	4	1
$f'(x)$	1	5	e	2	0

Use the table to compute the following quantities. Show your work.

a. [4 points] Approximate the integral $\int_{-1}^{1} f(2x+2)dx$ using MID(2). Write out each term in your sum.

b. [4 points] $\int_{-3}^{3} f'(x)(2x+2)dx$.

c. [3 points] $\int_{-1}^{1} (x+1)f'((x+1)^2)dx$.

d. [4 points] The average value of $(f(x)+1)^2 f'(x)$ on $[2,4]$.