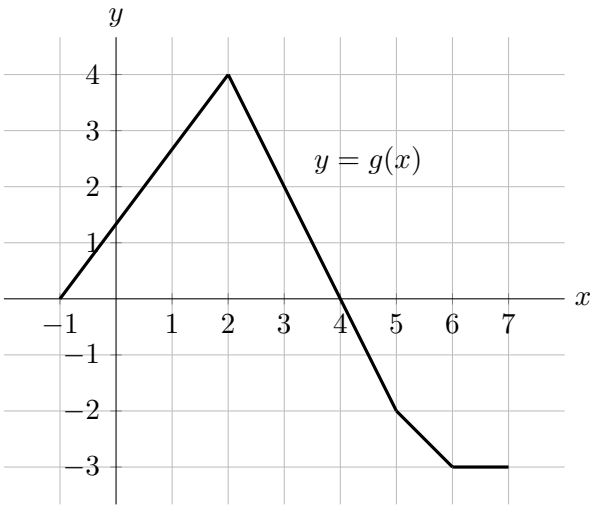
8. [12 points] Use the following graph and table to calculate the integrals below.

The table below gives several values of a differentiable function f and its derivative f'. Assume that both $f(x)$ and $f'(x)$ are positive and continuous.

x	-2	-1	0	1	3
$f(x)$	0.5	3	4	10	30
$f'(x)$	2	0.5	5	2	22

You are not required to show your work on this problem. However, limited partial credit may be awarded based on work shown.

Let g be the piecewise linear function with graph shown below.



For each of parts **a.-c.** below, find the exact value of the given quantity. If there is not enough information provided to find the exact value, write "NOT ENOUGH INFO."
All your answers must be in **exact** form.

a. [4 points] Find $\displaystyle\int_3^4 tg'(t)\,dt$.

Answer: _____

b. [4 points] Find $\displaystyle\int_{-1}^{1} \frac{2f'(2x+1)}{f(2x+1)}\,dx$.

Answer: _____

c. [4 points] Find $\displaystyle\int_1^3 \frac{f'(x)(7f(x)+11)}{(f(x)+1)(2f(x)+4)}\,dx$.

Answer: _____