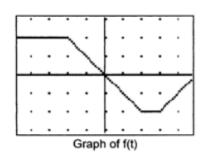
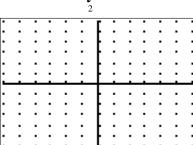
The graph of f(t) is shown at right. Assume that 1 tick = 1 unit. Use the concept of accumulated area to draw a sketch of the following:



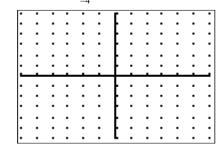
x	-4	-3	-2	-1	0	1	2	3	4
g(x)									
h(x)									
k(x)									

(a)
$$g(x) = \int_{0}^{x} f(t)dt$$

(b)
$$h(x) = \int_{0}^{x} f(t) dt$$



$$k(x) = \int_{0}^{x} f(t)dt$$



When does g(x) reach a maximum? Justify your answer.

When does h(x) reach a maximum? Justify your answer.

When is the graph of k(x) concave down? Justify your answer.

Let f(t) be the function shown at right. Let $q(x) = \int_{-2}^{x} f(t) dt$.

Which is greater? q(-1) or q(2)

Which is greater? q'(-1) or q'(2)

