PRINT Your Name:_____

Quiz 4 — September 23, 2012 – Section 1 – 3:30 – 4:20

Remove everything from your desk except this page and a pencil or pen.
The solution will be posted soon after the quiz is given.

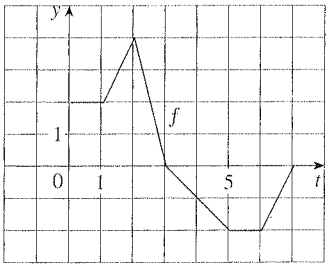
The quiz is worth 5 points.

Let $g(x) = \int_0^x f(t)dt$, where f is the function whose graph is shown.

(a) Find $g(1)$.

(b) Find $g(5)$.

(c) Where does g have a maximum value?



(a) $g(1)$ = area $= \boxed{2}$

(b) $g(5)$ = area $-$ area $= 2+2+1+2-2 = \boxed{5}$

(c) $g(3)$ is the maximum value of $g(x)$.

g increases on $[0,3]$

g decreases on $[3,6]$