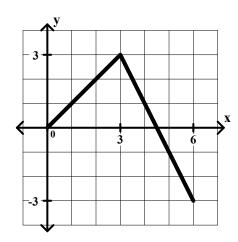
The graph of the function f shown below consists of 2 line segments.



Let g be the function given by  $g(x) = \int_0^x f(t)dt$  for any x in the domain of f.

- (a) Find g(2), g'(2), and g''(2).
- (b) Find g(5), g'(5), and g''(5).
- (c) For what values of x is g increasing?
- (d) For what values of x is the graph of g concave down?
- (e) Sketch the graph of g.