

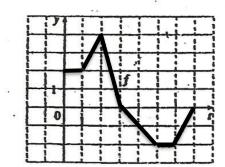
Let f be the function shown above. The function g is defined by $\int\limits_0^x f\left(t\right)\ dt$

Find:
$$g(0)$$
, $g(4)$, $g(12)$

Find
$$g'(x)$$

Write the equation of the line tangent to the graph of g at x = 1

- 2. Let $g(x) = \int_0^x f(t) dt$, where f is the function whose graph is shown.
- (a) Evaluate g(0), g(1), g(2), and g(6).



- (b) On what intervals is g increasing?
- (c) Where does g have a maximum value? What is the maximum value?
- (d) Where does g have a minimum value? What is the minimum value?