

Problem statement The graph of f is shown to the right. The function $F(x)$ is defined by $F(x) = \int_0^x f(t) dt$ for $0 \leq x \leq 4$.

a) Find $F(0)$ and $F(3)$.

b) Find $F'(1)$.

c) For what value of x does $F(x)$ have its maximum value? What is this maximum value?

