

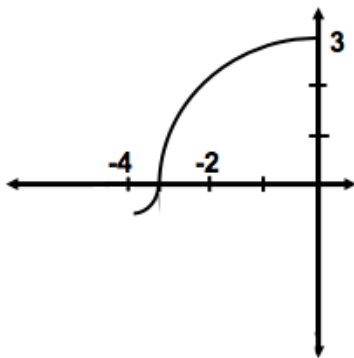
CALCULUS 12 LG 4-6
Group Work Exercise #3

Names: _____

1. The continuous function f is defined on an interval $-4 \leq x \leq 0$. The graph of f consists of two quarter circles shown below. Let $g(x) = 2x + \int_0^x f(t) dt$

a) Find $g(-3) =$

b) Find $g'(x)$ and evaluate $g'(-3)$



2. The continuous function f is defined on an interval $-8 \leq x \leq 0$. The graph of f consists of two triangles shown below. Let $g(x) = x + \int_0^x f(t) dt$

a) Find $g(-6) =$

b) Find $g'(x)$ and evaluate $g'(-6)$

