Calculus I   Quiz One   Form B   Summer 2007
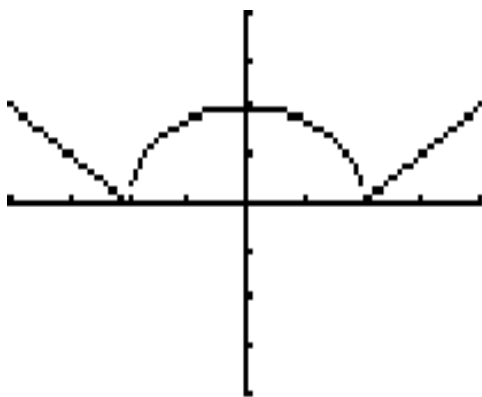
Name:_____

1) Given $f(x) = \dfrac{x+2}{5}$ Find $\dfrac{f(x+h) - f(x)}{h}$ (5 Points)

2)   Find a formula that describes the following function: (5 Points)

3) A small-appliance manufacturer finds that it costs $9000 to produce 1000 toaster ovens a week and $12000 to produce 1500 toaster ovens a week. (6 Points)

a) Express the cost as a function of the number of the toaster ovens produced, assuming that it is linear.

b) What is the slope of the graph and what does it represent?

c) What is the y-intercept of the graph and what does it represent?

4) Use the following table to evaluate the expressions. (4 Points)

x	1	2	3	4	5	6
f(x)	3	1	4	2	2	5
g(x)	6	3	2	1	2	3

a) (f o g o g)(1) =   b)   (g o g o f)(1) =

c) (g o f)(3) =   d)   (f o g)(6) =