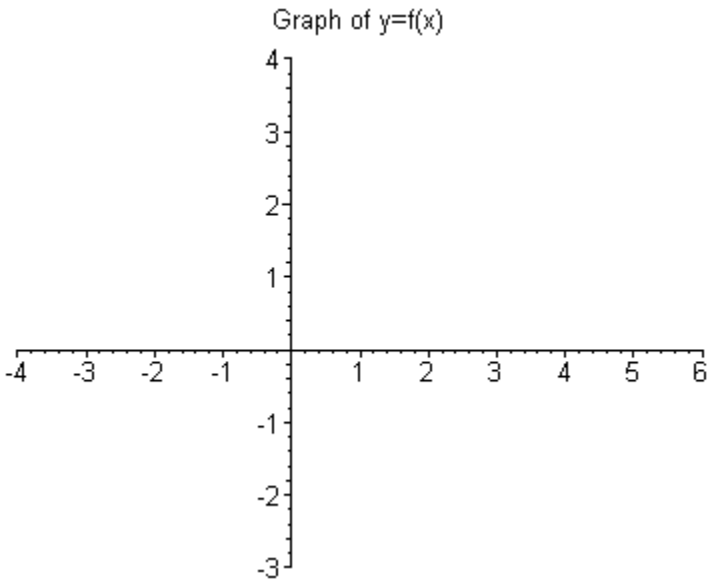
9/5/2001 MA303 Calculus I Name:_____
Dr. Lunsford Quiz 2 (20 Points Total)

I. Use the graph of the function f below to find the indicated function values and limits. If a limit does not exist indicate so by writing DNE for your answer. (Function values count 1 point each; limits count 2 points each - 14 points total)



(a) $f(0) =$ ___ (b) $f(-1) =$ ___ (c) $f(2) =$ ___ (d) $f(3) =$ ___

(e) $\lim_{x\to -1} f(x) =$ ___ (f) $\lim_{x\to -2} f(x) =$ ___ (g) $\lim_{x\to 3} f(x) =$ ___

(h) $\lim_{x\to 2} f(x) =$ ___ (i) $\lim_{x\to 5} f(x) =$ ___

II. Complete the table below and use the results to estimate the given limit. Round all entries in the table to 5 decimal places. (6 points total)

$$\lim_{x\to 4} \frac{16-x^2}{x-4} =$$ ____

x	3.9	3.99	3.999	4.001	4.01	4.1
$f(x)$						