9/11/2000   MA303 Calculus I   Name:_____
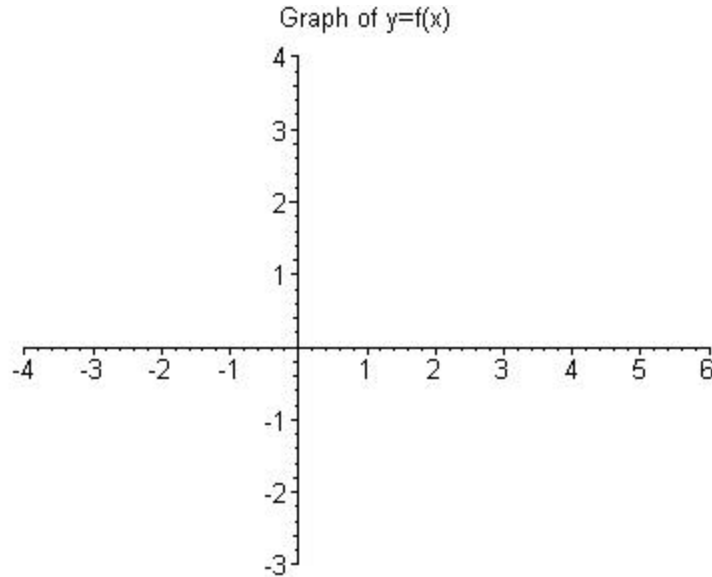Dr. Lunsford   Quiz 2   (20 Points Total)

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. (1 each – 10 total)

Graph of y=f(x)

(a) $f(0) =$ ____   (b) $f(-2) =$ ____   (c) $f(2) =$ ____   (d) $\lim\limits_{x\to 2} f(x) =$ ____

(e) $\lim\limits_{x\to -1} f(x) =$ ____   (f) $f(5) =$ ____   (g) $f(-1) =$ ____   (h) $\lim\limits_{x\to -2} f(x) =$ ____

(i) $\lim\limits_{x\to 4} f(x) =$ ____   (j) $\lim\limits_{x\to 5} f(x) =$ ____

II. Complete the table below and use the results to estimate the given limit. When
completing the table, write your answers as they appear on your calculator display (i.e.
show all digits on your display). (10 points total - table entries count 1.5 points each,
limit answer based on table results counts 1 point)

$$\lim_{x\to 0} \frac{\sin 2x}{4x} = \underline{\quad}$$

x	-.1	-.01	-.001	.001	.01	.1
$f(x)$						