Calculus 1 – NO CALCULATOR

Name: \_\_\_\_

Evaluating Functions & Graphing Linear Piecewise Functions Warm Up Date: \_\_\_\_\_\_

Section 1: Evaluate each function at the value indicated. You will see some problems have been done for you as examples.

1)	$f(x) = 2x^2 - 5x - 3$	
a) f(-2) = 2(-2	) <sup>2</sup> – 5(-2) – 3 = 8 + 10 – 3 = <u><b>15</b></u>	b) f(-1) =
c) f(0) =		d) f(1) =
e) f(2) =		

Notice, you can turn each of those answers into ordered pairs that would be useful for sketching the graph of the function.

a) (-2, <u>15</u> )	b) (-1,)	c) (0,)	)	d) (1,	) e) (2,	)
2) g(x) is shown in	the graph below.					
a)g(-4)=-5	b) g(-3) =					
c) g(-2) =	d) g(-1) =					
e) g(0) =	g(0) = f) g(1) = 0					
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3) $h(x) = \begin{cases} 3 \\ x^2 - 1 \end{cases}$	$\begin{array}{ccc} 1 & -2 < x \leq 3 \\ \hline & x > 2 \end{array}$	a) h(-3) = <u>3</u>		b) h(-2.5	) =	_
(x - x)		c) h(-2) =		d) h(-1) =	$(-1)^2 - 1 = 1 - 1 = 0$	
		e) h(0) =		f) h(1) =		
BIG HINT: This is function. If you are more than one an	e tempted to put	g) h(2) =		h) h(3) =		
any of these, you a there was more than wouldn't be a	re incorrect. If n one answer…it	i) h(4) = 4 – 5 = <u>-1</u>		j) h(5) = _		



