VALENCIA COMMUNITY COLLEGE

Calculus 1 MAC 2311 **Name:**
Review for Test 1 **Date:**

1) Find inverse functions

2) Solve logarithmic and exponential equations.

3) If $f(x) = 1 - x^5$,
Use a table of values to estimate the instantaneous rate of f(x) at x = 2.

h							
$\frac{f(2+h)-f(2)}{h}$							

4) Find limits using tables

5) Using the Limit Laws to evaluate limits

6) Suppose $f(x) = \begin{cases} 2 + 5x^2 & if \quad x < 2 \\ 24 - x & if \quad x \geq 2 \end{cases}$; determine whether the function is continuous at x = 2

7) Use a table of values to estimate $f'(a)$ at the given values of $x = a$

8) Use the definition of derivatives to evaluate derivatives

9) Find the equation of tangent line of $y = \frac{\sqrt{x-2}}{x+1}$ at x =11

10) Find the equation of secant line of a function, if two x values are given.