Name:	ID #:	Section:	
 Consider the point P(-1,1) on the f(x) = x². a. Find the slope m_{PQ} of the sect for any point Q on the graph. b. Use m_{PQ} to find the slope of line at P. c. Use (b) to find the value of f⁴ 	cant line <i>PQ</i> the tangent		
2. Evaluate the limit, if it exists. If the not exist, explain why. $\lim_{x \to 1} \frac{ x + 1}{x - 1}.$	he limit does		
3. Let $f(x) = \sqrt{x}$. Find the largest δ $ x - 4 < \delta \implies f(x) - 2 < 1/2$			
4. For what values of the constant <i>c</i> is continuous everywhere?	the function f		
$f(x) = \begin{cases} 2\cos x & \text{if } x \\ c - x & \text{if } x \end{cases}$	r > 0 $r \le 0$		
5. Find the horizontal and vertical as the graph of $f(x) = \frac{\sqrt{1-x^2}}{x+2}$.	ymptotes of		