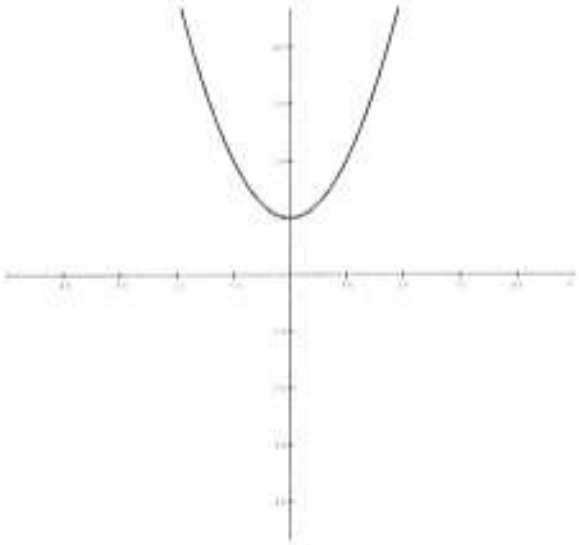
Math 113
Quiz 2 (2.1-2.2)

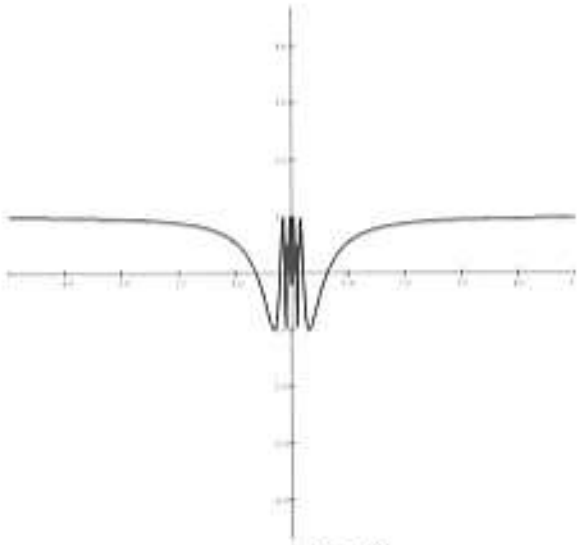
1) Use the graphs to find the limit (if it exists) If the limit does not exist explain why? (15 pts.)

a)



$$\lim_{x \to 0}(x^2 + 1)$$

b)



$$\lim_{x \to 0} \cos\left(\frac{1}{x}\right)$$

2) Find the limit L Then find $\delta>0$ such that $|f(x)-L| < .01$ whenever $0 < |x-c| < \delta$

$\lim_{x\to 2}(3x+2)$ (25 pts.) (Hint: to find the limit you can use direct substitution.)