1.8 The Squeeze Theorem Calculus

Name:

CA #1

Calculus	
1. $g(x) = -3x^2 + x + 1$ and $h(x) = x - x^2 + x + 1$ is a function that satisfies $g(x) \le f(x)$ for all x , what is $\lim_{x \to -1} f(x)$?	
3. $g(x) = -\frac{1}{2}x^2 + x - \frac{9}{2}$ and $h(x) = \cos(\pi(x+2)) - 3$. If f is a f that satisfies $g(x) \le f(x) \le h(x)$ for what is $\lim_{x \to 1} f(x)$?	$I = III \lambda I - \lambda \lambda T = I I I I I S A IUUCUOU UIA$
	$\frac{1}{1} \int \frac{\sin x}{1 + \sin x} = \frac{1}{1 + \sin x} \int $
following inequalities are true for $x \neq$ squeeze theorem to find the limit of the a. $\frac{1}{4} \leq f(x) \leq \frac{1}{2}$ b.	$-x^5 \le g(x) \le x^5$ c. $-\frac{1}{x^3} \le g(x) \le \frac{1}{x^3}$
	$f(x) = \frac{6-6\cos x}{x^2}$ and $g(x) = x^3 \cos\left(\frac{1}{x}\right)$ for $x \neq 0$. The
squeeze theorem to find the limit of the a. $3 - x^2 \le f(x) \le 3$ b.	$-x^4 \le f(x) \le 1 + x^2$ c. $-x^3 \le g(x) \le x^3$
upper and lower Both equal 0.	3b. Yes. 5c. No. 6a. Yes. 6b. The outside functions Both coural 0. The outside functions Hoth coural 3.
5a. No. The upper and lower	13 2. Cannot be determined. 34 4. 1