Mathematics 122 Quiz		Kex	
A hot cup of coffee is set down on a table. Let t be the number of minutes since the coffee was put on the table and C the temperature of the coffee in °F. Then C is a function of t , that if $C = f(t)$. (1) If $f(5) = 90$ then what are the units of 5 and 90?			
147	. 1	Units of 5	nu tos
	U	nits of 90	=
(2) Do you expect $f'(t)$ explaining why. The state of th	to be positive or e coffee 1.	negative (circle	one). Write a sentence
(3) If $f'(5) = -2.5$, then		its of -2.5 ? ts of -2.5	/ minutes
(4) If $f(5) = 90$ and $f'(2)$	$5) = -2.5$, then ϵ	estimate $f(5.6)$.	20 - 012

sun our case t=5.6, a=5, \$101=90

f(5.6) ≈ 90 -2.5 (5.6-5)

= 90 - 2.5 (.6)

= 88,5

B(t) 2 B(a) + B(a) (t-a)

1'1a1 = -2.5