

Mathematics 122

Quiz #14

Name: Key

You must show your work to get full credit.

1. If a function is given by the table

	$\overset{.5}{\wedge}$	$\overset{.5}{\wedge}$	$\overset{.5}{\wedge}$	
t	6.0	6.5	7.0	7.5
$C(t)$	10.2	10.8	11.6	12.2
	$\underset{.6}{\vee}$	$\underset{.8}{\vee}$	$\underset{.6}{\vee}$	

Then make tables for $C'(t)$ and $C''(t)$.

	$\overset{.5}{\wedge}$	$\overset{.5}{\wedge}$	
t	6.25	6.75	7.25
$C'(t)$	1.2	1.6	1.2
	$\underset{.4}{\vee}$	$\underset{-.4}{\vee}$	

t	6.5	7.0
$C''(t)$.8	-.8