Math 1A (9:30am – 10:20 Quiz 1 Version D Fri Jan 8, 2009 SCORE:/ 10 POINT			What are What are What are [IF YOU	the first 2 digits of your a the last 2 digits of your zi the last 2 digits of your zi the last 2 digits of your so DO NOT HAVE A SOC UR STUDENT ID NUM	p code? ocial security CIAL SECU		
If an arrow is fired upward $y = 58t - 4.9t^2$.	USE F	ORMULA	58×=-4	9x2-167.5 U	ISING	ORE:/3 POINTS ×= 5.1, 5.02,	
[FILL IN THE TABLE] Find the average velocity for the time period beginning when $t = 5$ and lasting							
		time period lasting					
	0.1	second	0.02 second	0.004 second		0.0008 second	
average velocity	1 (8.5	51) =	(8.902)	2 (8.9804)	12	3,9961) 2	
	rounded to 4 decimal places						
[b] [FILL IN THE BLANK] The instantaneous velocity at $t = 5$ is							
人女女缘本女女	*******	农女子人子女农	****	*********	《女子人女女	人本弥本办本人	
The point $P(4, 2)$ lies on the curve $y = \frac{\sqrt{x}}{x-3}$. SCORE:/5 POINTS [a] [FILL IN THE TABLE] If Q is the point $\left(x, \frac{\sqrt{x}}{x-3}\right)$, find the slope of the secant line PQ for the following values of x :							
slope of secant line	x = 4.5	x = 4.05	x = 4.005	1	x = 3.95	x = 3.995	
	rounded to 4 decimal places						
b] [FILL IN THE BLANK] The slope of the tangent line at P is							
[c] [FILL IN THE BLANK] The equation of the tangent line at P (in point-slope form) is $9-2=-1.75(x-4)$							
*******	-人本女本祭	农女子人子女农	黎本女女女女本家	本語本本本本本本語	スキムチス	人本农本缘本	
The table below shows the value of a function $y = f(x)$.							
x	0	4	8	12	16	20	
f(x)	37	29	22	17	13	11	
Estimate the slope of the tangent line at $P(16, 13)$ by averaging the slopes of two appropriate secant lines.							
$\frac{1}{2} \frac{16-12}{16-13} = \frac{11-13}{20-16} = \frac{1}{20-16}$	(1) 4 (2) 1/2	$\frac{1}{2}$	-1+-1/2)=	-3 OR -O EITHER	75) ONE		