Math 1A (9:30am – 10:20am) Quiz 1 Version A Fri Jan 8, 2009 SCORE: / 10 POINTS If an arrow is fired upward with a velocity of 55 m/s, its height in me		What month is your birthday? What are the first 2 digits of your address? What are the last 2 digits of your zip code? What are the last 2 digits of your social security number? [IF YOU DO NOT HAVE A SOCIAL SECURITY NUMBER, USE YOUR STUDENT ID NUMBER] eters t seconds later is given by SCORE:/3 POINTS	
$y = 55t - 4.9t^2$. A USE FORMULA $55x - 4.9x^2 - 152.5$ WITH $x = 5.1$, 5.02 , [a] [FILL IN THE TABLE] Find the average velocity for the time period beginning when $t = 5$ and lasting 5.004			
	time period lasting		
	0.1 second 0.02	second 0.004 second 0.0008 second	
	average velocity (5.51) \(5.6	102 1 (5.9804) (5.996)	
rounded to 4 decima		ded to 4 decimal places	
[b]	[b] [FILL IN THE BLANK] The instantaneous velocity at $t = 5$ is		
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	IFILL IN THE TABLE] If Q is the point $\left(x, \frac{\sqrt{x}}{x-3}\right)$, fin	SCORE:/5 POINTS $\frac{1}{3} - \frac{2}{2}$ And the slope of the secant line PQ for the following values of x :	
	slope of secant line $x = 4.2$ $x = 4.02$	x = 3.8 $x = 3.98$ $x = 3.98$ $x = 3.998$ $x = 3.99$	
[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 $y-2=-1.75(x-4)$		
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The table below shows the value of a function $y = f(x)$. SCORE:/2 POINTS			
	x 0 4 8	8 12 16 20	
f	f(x) 37 (29) 2	22 17 13 11	
	the slope of the tangent line at $P(4, 29)$ by averaging the slope of the tangent line at $P(4, 29)$ by averaging the slope of the tangent line at $P(4, 29)$ by averaging the slope of the tangent line at $P(4, 29)$ by averaging the slope of the slope of the tangent line at $P(4, 29)$ by averaging the slope of the slope of the tangent line at $P(4, 29)$ by averaging the slope of the slope of the tangent line at $P(4, 29)$ by averaging the slope of the slope of the slope of the tangent line at $P(4, 29)$ by averaging the slope of the	lopes of two appropriate secant lines. $ \frac{1}{4} = -\frac{15}{8} \log \left(-1.875\right) $	
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