Ω	uiz	#	19
6	uiz	77	TU

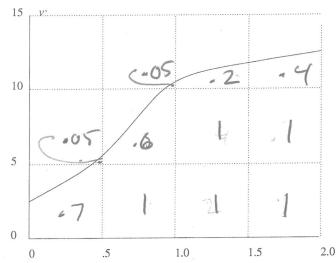
Key Name:

You must show your work to get full credit.

1. Use your calculator to compute the following:

 $\int_{0}^{4} 2^{x} dx = 4.32\%$ $\int_{-1}^{2} \frac{u \, du}{\sqrt{1 + u^{2}}} = 821\%$

2. The following is a graph of the velocity, v, of a runner in ft/sec and a function of time, t, in seconds.



Puch BUX is (5)(5) = 2.5+.7 +.05 +.6 +.05 +-2 +-4) =7.0 40x0s =7(2.5)=17.5

Give an estimate for the distance covered: 217.5 ++

3. Roger runs a marathon. His friend Jeff rides behind him on a bicycle and records his speed every quarter of an hour. Roger starts out strong but after and hour and a half he is so exhausted that he has to stop. Here is Jeff's data:

Time since start (hours) | 0.0 | 0.25 | 0.50 | 0.75 | 1.0 | 1.25 | 1.5 12 11 10 Speed (mph)

Compute the following for the distance he has covered:

25(12+11 +10+10 +8+7) = Upper bound 14.5

·25(11 +10 +10 +8+7+0)

Lower bound 11.5 mg

Best Guess 13.0 14-5+11-5