

Quiz #4

Math 116-2K

Tuesday, January 11, 2000

For full credit, show all of your work. Round your answers appropriately.

1. Choose a model for the following data, explain your choice, and compute the model. (Five points)

x	0	1	2	3	4	5	6	7	8	9
y	2.86	2.58	2.28	2.08	2.00	1.96	1.92	1.92	1.94	1.90

2. Find the average rate of change between $x = 1$ and $x = 7$ for the previous data set. (Two points)
3. Find the average rate of change for the following logistic model between $x = 3$ and $x = 25$. (Three points)

$$y = \frac{25}{1 + 7e^{-0.05x}}$$