

QUIZ 10

Name _____

1. Find the exponential or logarithmic function that best fits the data for the price of dental services given below.

Years	
Since 1980	Price Index
0	78.9
5	114.2
10	155.8
15	206.8
20	258.5

According to your model what was the price index in 2000?

2. Solve the equation $157 = 111(2.1)^t$ for t .

3. Rewrite $3 \ln(3x^2) + \ln(x^6)$ as a single logarithmic expression.

4. A savings account balance is currently \$235 and is earning 2.32 percent per year. When will the balance reach \$250?