Practice worksheet | Exponentials and logarithms

Exponential growth and decay

Name: _____ Date: _____

6 questions | 14 marks

1. A quantity is multiplied by 1.07 monthly. State its percentage change. [2 marks]

2. Model 250 grams decreasing by 12% each day. [2 marks]

3. For $N(t) = 300(1.2)^t$, find $N(2)$. [2 marks]

4. The equally spaced values are 5, 15, 45, 135. Does an exponential model fit? [2 marks]

5. Compare $L(t) = 20 + 5t$ and $E(t) = 20(1.25)^t$. [3 marks]

6. Will $B(t) = 80(0.5)^t$ equal zero at any finite real t? Explain. [3 marks]