Algebra II, Quiz 10.1-10.2

1. Are the following functions exponential? If so, identify the initial value, growth factor:

a) $10t^3$

b) $t \cdot 10^3$

c) $.625(0.25)^t$

2. Write the exponential functions in the form $Q = ab^t$ and identify the initial value, growth factor, and growth rate as a percentage.

a) $Q = 200 \cdot 5^t$

b) $Q = 1000 \cdot (.85)^{t/3}$

c) $Q = 1000 \cdot (1.06)^{t/7}$