Bellwork Thursday, May 1, 2014

1. Does each exponential equation represent Growth or Decay?

a. $400\left(\frac{132}{133}\right)^{x}$

b. $0.015(1.003)^{x}$

c. $25{,}010(0.99958)^{x}$

d. $7.192\left(\frac{26}{25}\right)^{-x}$

2. Take each percent change and find the growth or decay factor.

a. 16.5% decrease. b=

b. 0.13% decrease. b=

c. 94.9% decrease. b=

d. 220% increase. b=

3. For each exponential equation find the percent change and tell if it's an increase or decrease.

a. $y=23(1.007)^{x}$

b. $y=800(0.502)^{x}$

c. $y=3500(1.64)^{x}$

d. $y=5(0.098)^{x}$

4. Match each equation to its graph.

1. ___ $y = 2(0.45)^{x}$
2. ___ $y = 4(2.6)^{x}$
3. ___ $y = 2(0.86)^{x}$
4. ___ $y = 2(0.15)^{x}$
5. ___ $y = 4(8)^{x}$
6. ___ $y = 2(1.25)^{x}$