Exponential Growth and Decay Problems 4 **Name**

1) Which of the exponential functions below show **growth** and which show **decay**?

a) $y = 5(2)^x$ growth

b) $y = 100(.5)^x$ decay

c) $y = 80(1.3)^x$ growth

d) $y = 20(0.8)^x$ decay

e) $y = 20(1+0.025)^x$ growth

f) $y = 40(1-0.4)^x$ decay

2) Since January 1980, the population of the city of Brownville has grown according to the mathematical model $y = 720{,}500(1.022)^x$, where x is the number of years since January 1980.

a) Explain what the numbers 720,500 and 1.022 represent in this model.

720,5000 represents starting pop.
1.022 represents rate of increase

b) What would the population be in 2000 if the growth continues at the same rate.

$720500(1.022)^{20}$
1,113,401.75

c) Use this model to predict about when the population of Brownville will first reach 1,000,000.

$1{,}000{,}000 = 720\,500(1.022)^x$
$\log_{1.022} 1.39 = \log_{1.022} 1.022^x$ x ≈ 15.13

3) A population of 800 beetles is growing each month at a rate of 5%.

a) Write an equation that expresses the number of beetles at time x.

$y = 800(1.05)^x$

b) About how many beetles will there be in 8 months?

$= 800(1.05)^8$
$= 1,181$

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