

Math 70 - Quiz 8 Sections 5.2-5.3, Friday April 4th, 2008

1). Construct an exponential function that goes through the points:

(a).  $f(0) = 120$  and  $f(2) = 10$ .

(b). Is the above function an exponential growth or decay function? Explain.

2). In a small village outside of Kansas city the population has been growing in recent years. In 1985 the village had a population of 400 people and in 2005 the population reached 1600 people. Create two models, let  $f(t)$  be a linear model and  $g(t)$  be the exponential model.