Name: b)How much will the car be worth in 4 Exponential Growth and Decay years? 1)A population of 422,000 increases by 12% each year. a) Write an exponential growth function to model the situation. c) In what year will the car cost about \$2500? b) What will be the population in 5 years? 4) The population of Baconburg is 20,000 in the year 1990, and grows by 13% each c) What year will the population double? vear. a)Write an equation to model the situation. 2) You start with \$30,000 and earn 15% interest each year. b) How much will the population be after 9 a)Write an exponential growth function to vear? model the situation. c) What will the year will the population triple? b)How much money will you have in 8 years? 5)A Limited Edition G43 Guitar cost \$9,675. It decreases in value by 9.5% every year. c) How many years will it take for the account to reach \$1,000,000? a)Write an equation to model the situation. 3) A car is bought for \$13,000 in the year 2012. And, it depreciates at 12% each b) How much will the guitar cost in 3 years? year. a)Write an equation to model the situation. c) In what year, will the guitar be worth

\$15,000?