Name: _____ Date: _____ **Unit 7 Class Work**

Exponential Functions Using Technology Class Work

Objective: *You will be able to use technology to write and analyze exponential functions to model situations.*

★ 1) The population of a town is recorded in five-year intervals, as shown.

Year	Population (in thousands)
1990	3.81
1995	4.09
2000	4.28
2005	4.54
2010	4.77
2015	4.05

Determine a model of the population of the town that fits the data.

Does the model overestimate or underestimate the actual population of the town for the first 15 years? What about after that?

★ 2) The amount of money donated to a scholarship foundation is recorded during some years, as shown in the table.

Year	Amount of Money Added to the Scholarship Fund
2002	$550
2007	$600
2010	$660
2013	$720
2014	$795

Determine a model of the amount of money donated to the fund that fits the data.

Determine when the model overestimates and underestimates the actual donations.