## **Cost of Tuition = f(time)**

Here is some data from the <u>World Almanac</u> on the average cost of tuition and fees at public two-year colleges. 1991, \$824, 1992, \$937, 1993, \$1025, 1994, \$1125, 1995, \$1192, 1996, \$1330, 1997, \$1465, 1998, \$1567. Model cost of tuition as a function of time and extrapolate to estimate tuition and fees cost in 2004. Use the inverse function to predict when will be quadruple the 1991 level.



Write an equation that models tuition as a function of time and solve it for t to find the inverse function. Use this inverse function to predict in what year the cost would go above \$2500.

Use the back of the paper to write a description and create a system dynamics model.

Explain the strengths, weaknesses, and limitations of your model.