

Math 170, Lab 4: Modeling with *Mathematica*

In this lab you will use *Mathematica* to find linear and quadratic models for certain data. Instructions are contained in the *Mathematica* notebook lab4.nb, posted on the course website. This lab is due on Monday.

Here are some tables that you will need for the lab:

Table 1: Children's Ages and Weights

Age (months)	Weight (pounds)
19	22
21	23
24	25
27	28
29	31
31	28
34	32
38	34
43	39

Table 2: Median Income of Women in the United States (in 2007 dollars)

Year	Median Income (\$)
1950	7,165
1960	7,726
1970	10,660
1980	11,787
1990	15,486
2000	19,340
2007	20,922

Table 3: U.S. Patent Applications

Year	Applications (thousands)
1980	113.0
1990	176.7
1995	228.8
1998	261.4
1999	289.5
2000	315.8
2001	346.6
2002	357.5
2003	367.0