

QUIZ 9

Name _____

1. Find all relative maxima and minima for the function $g(x) = 0.04x^3 - 0.88x^2 + 4.81x + 12.11$.

2. The yearly amount of garbage (in millions of tons) taken to a landfill outside a city during selected years from 1975 through 2005 is given.

Year	Amount (millions of tons)
1975	81
1980	99
1985	117
1990	122
1995	132
2000	145
2005	180

Find a model for this data. According to your model are there any relative extrema between 1975 and 2005? What is the absolute maximum amount of garbage?