



In Class Exercises (ICE) - 12/11/00

Owing to improved seed types and new agricultural techniques, the grain production of a country has been increasing. Over a twenty year period, the agricultural production (in millions of tons) was as follows:

Year	1970	1975	1980	1985	1990
Production	5.35	5.90	6.49	7.05	7.64

During the same time period, the population of the country (in millions of people) was:

Year	1970	1975	1980	1985	1990
Population	53.2	56.9	60.9	65.2	69.7

- ***Find the equation of the curve (linear, exponential) that best fits the agricultural production data. Explain why you chose your curve.***

- ***Find the equation of the curve (linear, exponential) that best fits the population data. Explain why you chose your curve.***

- ***Based on this data, what rates of change would you predict for agricultural production, population and agricultural production per person at the beginning of the year 2001?***