

Name: _____

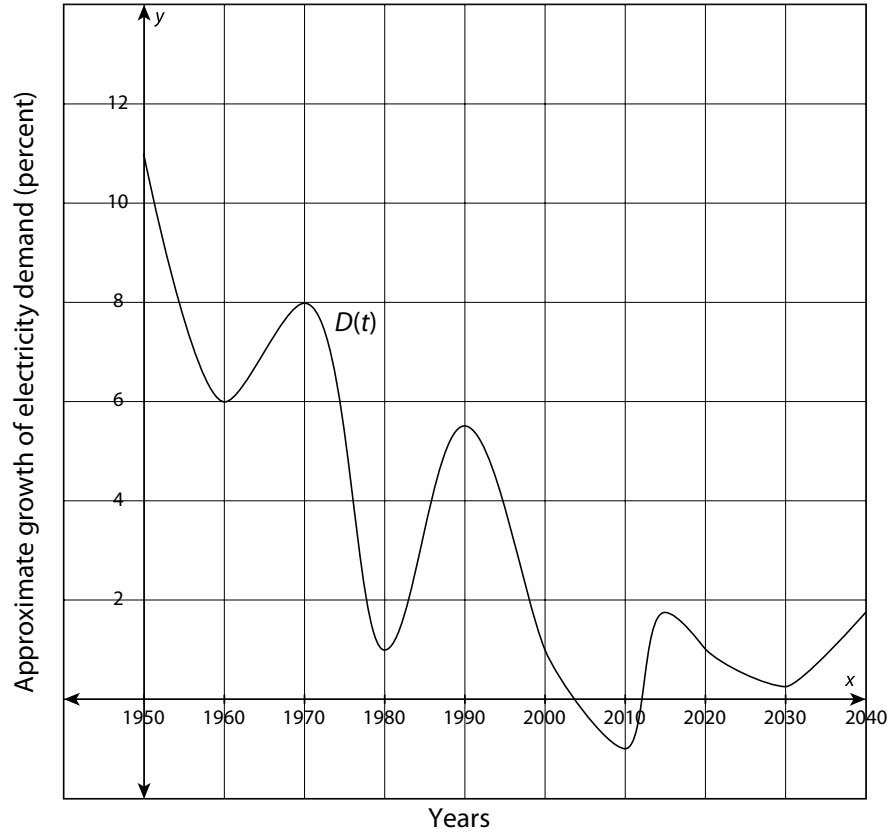
Date: _____

Problem-Based Task: It's Electric!

The growth of demand for electricity in the United States changes from year to year. Below is a sketch of a polynomial function that represents that approximate growth since 1950 and includes projections to 2040. Consider a possible polynomial function that could represent this information. Using end behavior, turning points, and roots, do you expect the growth of electricity demand to increase or decrease from 2040 to 2050? Explain your reasoning.



SMP	
1 ✓	2
3 ✓	4 ✓
5	6
7	8



Source: U.S. Energy Information Administration: Annual Energy Outlook 2013

Do you expect the growth of electricity demand to increase or decrease from 2040 to 2050?