## Population of the United States $=\mathbf{f}$ (time)

Here is the data for the U.S. population since 1790. Model U.S. population using the method you believe is most accurate. Use your model to predict the U.S. population in 2010, 2030, and 2050. Use the inverse function to predict when the population will be 300 million. What do you think will really happen to the U.S. population? Explain what your model does and does not take into account that affects its accuracy. What assumptions are you making or are implied by your model?

| Time <br> (years) | copulation <br> (Millions) |
| :---: | :---: |
| 1790 | 3.9 |
| 1810 | 7.2 |
| 1830 | 12.9 |
| 1850 | 23.1 |
| 1870 | 38.6 |
| 1890 | 62.9 |
| 1910 | 92 |
| 1930 | 122.8 |
| 1950 | 150.7 |
| 1970 | 203.3 |
| 1990 | 248.7 |


| Time <br> (years) | Population <br> (Millions) |
| :---: | :---: |
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