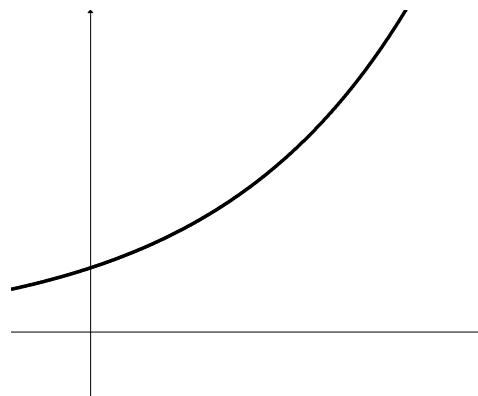


## WHY:

What is “exponential growth”?



Why do people make long-term investments?

How can we predict population growth?



## WHAT:

### Simplifying Exponential Expressions:

- Apply laws of exponents, including zero and negative and fractional exponents.
- Interchange between rational (fractional) exponents and radicals to evaluate and simplify expressions.

### Graphing and Evaluating Exponential Functions:

- Graph exponential functions and evaluate exponential functions.

### Applications of Exponential Functions (Growth and Decay):

- Write equations for exponential growth and decay functions applied to a variety of contexts.
- Apply equations for exponential functions to solve a variety of contextual problems.
- Explain and discuss the meaning of exponential functions in various contexts.