Write the equation for the function that results from each transformation applied to the base function $y = 4^x$.

15) Translate down 4 units and left 5 units.

A) $y = 4^{x-5} - 4$ B) $y = 4^{x+5} - 4$

C) $y = 4^{x-4} - 5$ D) $y = 4^{x+4} - 5$

16) Vertical stretch by a factor of 6.

A) $y = 4^{6x}$ B) $y = 6 \cdot 4^x$

C) $y = 4^x + 6$ D) $y = 4^{x-6}$

Evaluate given the following information.

17) The number of students at a certain school is 1220 and is increasing at a rate of 10% per year. Find the number of students in teh school after 7 years.

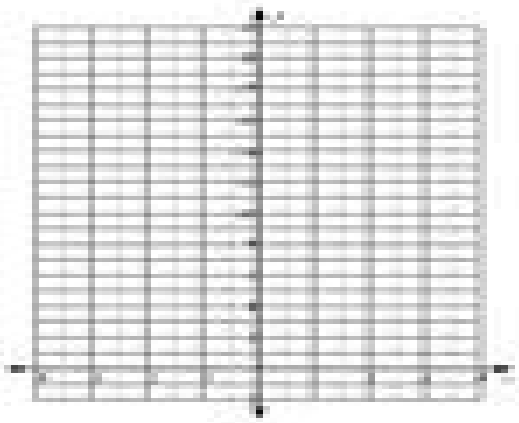
18) The population of an endangered species insect is 480,000. The population decreases at a rate of 15% per year. Find the population of the species after 3 years.

19) Stephanie invested 4,500 at a rate of 8%, compounded quarterly. Find her total amount after 8 years.

Graph the exponential function (if needed) and identify the given characteristics.

20) Graph the exponential function.

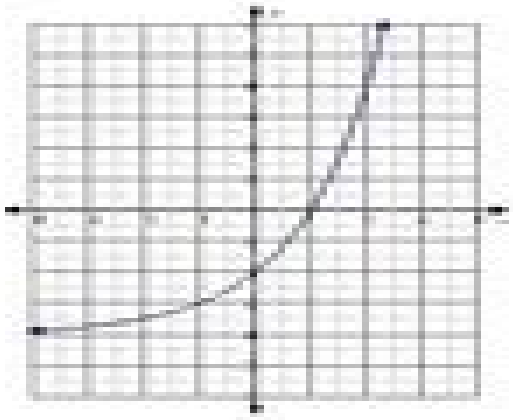
$y = 3 \cdot \left(\frac{1}{2}\right)^x$



21) $y = 2 \cdot 2^x - 4$ y-intercept:

domain: range:

growth / decay



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Egbert J. Miles,James Stephens Mikesh

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Table of Contents Linear And Exponential Functions 7 Answer Key

1. Understanding the eBook Linear And Exponential Functions 7 Answer Key
    - The Rise of Digital Reading Linear And Exponential Functions 7 Answer Key
    - Advantages of eBooks Over Traditional Books
2. Identifying Linear And Exponential Functions 7 Answer Key
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Linear And Exponential Functions 7 Answer Key
    - User-Friendly Interface
4. Exploring eBook Recommendations from Linear And Exponential Functions 7 Answer Key
    - Personalized Recommendations
    - Linear And Exponential Functions 7 Answer Key User Reviews and Ratings
    - Linear And Exponential Functions 7 Answer Key and Bestseller Lists

5. Accessing Linear And Exponential Functions 7 Answer Key Free and Paid eBooks
    - Linear And Exponential Functions 7 Answer Key Public Domain eBooks
    - Linear And Exponential Functions 7 Answer Key eBook Subscription Services
    - Linear And Exponential Functions 7 Answer Key Budget-Friendly Options
6. Navigating Linear And Exponential Functions 7 Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Linear And Exponential Functions 7 Answer Key Compatibility with Devices
    - Linear And Exponential Functions 7 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Linear And Exponential Functions 7 Answer Key
    - Highlighting and Note-Taking Linear And Exponential Functions 7 Answer Key
    - Interactive Elements Linear And Exponential Functions 7 Answer Key
8. Staying Engaged with Linear And Exponential Functions 7 Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Linear And Exponential Functions 7 Answer Key
9. Balancing eBooks and Physical Books Linear And Exponential Functions 7 Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Linear And Exponential Functions 7 Answer Key
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Linear And Exponential Functions 7 Answer Key
    - Setting Reading Goals Linear And Exponential Functions 7 Answer Key
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Linear And Exponential Functions 7 Answer Key
    - Fact-Checking eBook Content of Linear And Exponential Functions 7 Answer Key
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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