

Transformations of Exponential Functions - Worksheet

1. Graph each set of functions on the same axes by applying the appropriate transformations.

a) $f(x) = \left(\frac{1}{3}\right)^x$

b) $p(x) = 5^x$

$g(x) = -2\left(\frac{1}{3}\right)^{x-4}$

$q(x) = \frac{1}{4}(5^{-x})$

$r(x) = 5^{0.25x} + 3$

$h(x) = \left(\frac{1}{3}\right)^{2x} - 4$

2. For each transformation below, state the base (parent) function and then describe the transformations in the order in which they should be applied.

a) $f(x) = -3(4^{x+4})$

b) $g(x) = 2\left(\frac{1}{2}\right)^{2x} + 3$

c) $h(x) = \frac{1}{7}(0.5^{x-4}) - 1$

d) $k(x) = 5^{-3x-6}$

3. Let $f(x) = 4^x$. For each function that follows,

- State the transformations in the order that they that must be applied to $f(x)$
- Create an equation of the transformed functions below (using the base (parent) function)
- State the y-intercept and the equation of the asymptote
- Sketch the new function
- State the domain and range

a) $g(x) = \frac{1}{2}f(-x) + 2$

b) $h(x) = -2f(2x - 6)$

c) $f(x) = -f(0.25x + 1) - 1$

d) $k(x) = f\left(-\frac{1}{2}x + 2\right)$

4. a) Compare the functions $f(x) = 9^x$ and $g(x) = 3^{2x}$.
b) Use exponent laws to explain what you found in part a).

Answers:

1. a) $y = 4^x$; v.a. of 3, reflect in x-axis, translate left 1
b) $y = \left(\frac{1}{2}\right)^x$; v.a. of 2, h.c. of $\frac{1}{2}$, translate up 3
- c) $y = \left(\frac{1}{2}\right)^x$ OR $y = 0.5^x$; v.a. of $\frac{1}{2}$, translate right 4, translate down 1
d) $y = 5^x$; h.c. of $\frac{1}{2}$, reflection in y-axis, translate left 2
2. a) v.a. of $\frac{1}{2}$, reflection in y-axis, translate up 2; $g(x) = \frac{1}{2}(4^{-x}) + 2$; $(0, 2.5)$ and $y = 2$; D: $\{x \in \mathbb{R}\}$, R: $\{y \in \mathbb{R} \mid y > 2\}$
b) v.a. of 2, h.c. of $\frac{1}{2}$, reflection in x-axis, translate right 3; $h(x) = 2(4^{2x-6})$; $(0, 0.00049)$ and $y = 0$; D: $\{x \in \mathbb{R}\}$, R: $\{y \in \mathbb{R} \mid y < 0\}$
c) h.c. of 4, reflection in x-axis, translate left 4, translate down 1; $f(x) = -4^{(0.25x+1)} - 1$; $(0, -5)$ and $y = -1$; D: $\{x \in \mathbb{R}\}$, R: $\{y \in \mathbb{R} \mid y > -1\}$
d) h.c. of 2, reflection in y-axis, translate right 4; $k(x) = 4^{(-\frac{1}{2}x+2)}$; $(0, 16)$ and $y = 0$; D: $\{x \in \mathbb{R}\}$, R: $\{y \in \mathbb{R} \mid y > 0\}$
3. a) $g(x) = g(x)$ b) $f(x) = 9^x$
 $f(x) = (3^2)^x \rightarrow$ write 9 in another form that means the same thing
 $f(x) = 3^{2x} \rightarrow$ use 'power of a power' exponent law to combine exponents
 $\therefore f(x) = g(x)$

Transforming Exponential Functions Worksheet

Michael Kofler

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The American Economic Review ,1992 Includes papers and proceedings of the annual meeting of the American Economic Association Covers all areas of economic research

Journal of the American Statistical Association American Statistical Association,1991 *Tables of the Exponential Function* Ex Project for the Computation of Mathematical Tables (U.S.),1939 Handbook of Function and Generalized Function Transformations Ahmed I. Zayed,1996-05-15 Function transformations which include linear integral transformations are some of the most important mathematical tools for solving problems in all areas of engineering and the physical sciences They allow one to quickly solve a problem by breaking it down into a series of smaller more manageable problems The author has compiled the most important and widely used of these function transforms in applied mathematics and electrical engineering In addition to classical transforms newer transforms such as wavelets Zak and Radon are included The book is neither a table of transforms nor a textbook but it is a source book that provides quick and easy access to the most important properties and formulas of function and generalized function transformations It is organized for convenient reference with chapters broken down into the following sections

Compilation of Exponential Functions for Arguments from 2 Through 50 J. C. LeDoux,L. K. Donovan,1960

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Table of Contents Transforming Exponential Functions Worksheet

1. Understanding the eBook Transforming Exponential Functions Worksheet
 - The Rise of Digital Reading Transforming Exponential Functions Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Transforming Exponential Functions Worksheet
 - 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 Transforming Exponential Functions Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transforming Exponential Functions Worksheet
 - Personalized Recommendations
 - Transforming Exponential Functions Worksheet User Reviews and Ratings
 - Transforming Exponential Functions Worksheet and Bestseller Lists
5. Accessing Transforming Exponential Functions Worksheet Free and Paid eBooks
 - Transforming Exponential Functions Worksheet Public Domain eBooks
 - Transforming Exponential Functions Worksheet eBook Subscription Services
 - Transforming Exponential Functions Worksheet Budget-Friendly Options

6. Navigating Transforming Exponential Functions Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Transforming Exponential Functions Worksheet Compatibility with Devices
 - Transforming Exponential Functions Worksheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transforming Exponential Functions Worksheet
 - Highlighting and Note-Taking Transforming Exponential Functions Worksheet
 - Interactive Elements Transforming Exponential Functions Worksheet
8. Staying Engaged with Transforming Exponential Functions Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transforming Exponential Functions Worksheet
9. Balancing eBooks and Physical Books Transforming Exponential Functions Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transforming Exponential Functions Worksheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Transforming Exponential Functions Worksheet
 - Setting Reading Goals Transforming Exponential Functions Worksheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Transforming Exponential Functions Worksheet
 - Fact-Checking eBook Content of Transforming Exponential Functions Worksheet
 - 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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