



Exponential Match-Up



Key

We have been looking at how exponential functions grow. Today we'll look at the graphs of these exponential functions and use what we know about transformations to match the graphs to their equations.

1. Match graphs A-F with their equation. Then determine whether the graph is increasing or decreasing and its concavity. Record your results in the table.

Graph	Equation	Increasing or Decreasing?	Concave Up or Concave Down?
A	$5 \cdot 2^x$	increasing	up
B	$\frac{1}{2} \cdot (\frac{1}{2})^x$	decreasing	up
C	$* \cdot (t)^x$	decreasing	up
D	$@ \cdot -2^x$	decreasing	down
E	$\# \cdot 3^{-x}$	decreasing	up
F	$! \cdot 3^x$	increasing	up

No inflection pts \leftrightarrow concavity does not change.

Exponential functions are either always increasing or always decreasing.

2. How can you tell from an equation whether the function models exponential growth or decay?

If $b > 1$ then there is exponential growth
If $0 < b < 1$ there is exponential decay

3. One extra equation card turned up that wasn't part of your original set! Which graph would this match with? How do you know?

$y = 2^{-x}$

This would match with graph C. 2^{-x} is a reflection across the y-axis which now models exponential decay.

$y = (\frac{1}{2})^x$
 $= \frac{1}{2^x}$
 $= \frac{1}{2^x}$
 $= 2^{-x}$

4. Explain why it is possible that one graph could represent two different equations.

Some equations can be re-written in multiple ways using exponent properties.

5. Match graphs G-L with their equation and graph behavior. Record your results in the table.

Graph	Equation	Increasing or Decreasing?	Concave Up or Concave Down?
G	$\textcircled{C} \cdot 2^{x-1}$	increasing	up
H	$\textcircled{2} \cdot 3^x + 2$	increasing	up
I	$\textcircled{^} \cdot 2^x - 1$	increasing	up
J	$\textcircled{=} \cdot 2 \cdot (\frac{1}{2})^x$	decreasing	up
K	$\textcircled{!} \cdot -3^x + 2$	decreasing	down
L	$\textcircled{!} \cdot 3^{x+1}$	increasing	up

6. Petra believes that graph L represents the parent function $y = 3^x$ after it has been shifted to the left one unit. Pierre believes that graph L represents the parent function $y = 3^x$ after it has been vertically stretched by a factor of 3. Who is correct? Give a convincing reason.

Both are correct! Stretching by 3 means we have $3 \cdot 3^x$ which gives one extra factor of 3 so we really have 3^{x+1} which is a horizontal shift left 1.

$3 \cdot 3^x$
 $= 3 \cdot 3 \cdot 3 \cdot 3 \cdot \dots$
 $= 3^{x+1}$

Exponential Matching Key Precalculus

JE Gale



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Table of Contents Exponential Matching Key Precalculus

1. Understanding the eBook Exponential Matching Key Precalculus
 - The Rise of Digital Reading Exponential Matching Key Precalculus
 - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Matching Key Precalculus
 - 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 Exponential Matching Key Precalculus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Matching Key Precalculus
 - Personalized Recommendations
 - Exponential Matching Key Precalculus User Reviews and Ratings
 - Exponential Matching Key Precalculus and Bestseller Lists

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