





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.

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.

save Down?	Concave Up or Conc	Increasing or Decreasing?	Equation	3raph
100000	up	mcreasing	\$ 2.x	A
100	LL P	decreasing	·/ (+)x	В
infle	wp	decreasing	* (1)	C
Pts	down	decreasing	@ -Zx	D
Conc	U-D	decreasing	# 3 ^{-x}	E
C	tun	increasing	1 3 5	F

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

If b>1 men mere is exponential growth If 02 621 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?

This would match with graph C. $y = 2^{-x}$ $y = 2^{-x}$ $y = 3^{-x}$ $y = 3^{-x}$

which now models exponential decay.

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.

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	(a) 2×-1	increasing	ир
н	2 3× +Z	increasing	up
	A 2x-1	increasing	wo
J	∞ 2 (±)	decreasing	u.p
K	1 - x + 3	decreasing	down
L	JL 3**1	increasing	up

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

3's Both are correct! Stretching by 3 means we have 3.3x which gives one extra factor of so we really have 3xt which is a norizontal shift left 1 CALC MEDIC



Exponential Matching Precalculus Key

Diana McGinnis, Marilyn Reba

Exponential Matching Precalculus Key:

Precalculus Cynthia Y. Young, 2023-05-16 Cynthia Young s Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging Precalculus Sheldon Axler, 2017-08-21 Sheldon Axler's Precalculus A Prelude to Calculus 3rd Edition learning objectives focuses only on topics that students actually need to succeed in calculus This book is geared towards courses with intermediate algebra prerequisites and it does not assume that students remember any trigonometry. It covers topics such as inverse functions logarithms half life and exponential growth area e the exponential function the natural logarithm and Precalculus Bernard Kolman, Arnold Shapiro, 2014-05-10 Precalculus Functions Graphs provides a complete trigonometry and self contained presentation of the basic mathematical techniques and ideas required for the successful completion of a calculus course The book emphasizes the learning and understanding of the concept of a function using function notation and being able to sketch graphs of functions with ease The text employs a number of pedagogic devices that have been proven effective in teaching college mathematics. The mathematical concepts are presented in a style that is informal supportive and user friendly Progress checks warnings and features are inserted Every chapter contains a summary including terms and symbols with appr This textbook is intended for college students PRACTIS Diana McGinnis, Marilyn Reba, 2025-05-15 PRACTIS Precalculus Review and Calculus Topics In Sync provides just in time resources to support Calculus I students This volume contains worksheets which may be assigned to students for targeted remediation of the necessary material to be successful in Calculus Prepared by two highly experienced instructors the twenty eight worksheets cover topics broadly divided into four categories limits differentiation applications of derivatives integration In addition each worksheet comes with an answer key The convenience of the worksheets is enhanced by a table showing how the resources align with popular Calculus textbooks guidelines and suggestions for using the worksheets a handy table summarizing the topics of each worksheet Presentation slides covering the precalculus calculus topics from each worksheet are also available for use by those instructors who wish to present these topics in the classroom or who want to share them with students on their learning management system These can be found at www ams org bookpages clrm 76 Coherent Mathematics: A Precalculus Symphony Pasquale De Marco, 2025-04-11 Coherent Mathematics A Precalculus Symphony takes readers on a captivating journey through the world of mathematics revealing its beauty power and applications This comprehensive quidebook is meticulously crafted to provide a solid foundation in precalculus while igniting a passion for mathematical exploration Written in a clear and engaging style this book unravels the intricacies of mathematical concepts through intuitive explanations illustrative examples and thought provoking exercises It is designed to cater to a diverse audience from high school students seeking a deeper understanding of precalculus to college students seeking a comprehensive review

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