

# Exponential Functions (Graphs and Equations)



Here are some exponential equations in the form

$$y = a^x$$

The variable  $x$  is the power (or exponent).

Some exponential equations will be in the form

$$y = a^{-x} \text{ this is the same as } y = \left(\frac{1}{a}\right)^x$$



## Section A

Match the graph to the exponential equation. Label the graphs with A, B, C or D.



**A**  $y = 6^x$

**B**  $y = 1.5^{-x}$

**C**  $y = 0.2^x$

**D**  $y = 2.5^x$

## Section B

Substitute  $x = 0$  into the equations to help label the graphs with 1, 2, 3, 4 or 5.

**1**  $y = 3(2^x)$

**2**  $y = 0.5(5^{-x})$

**3**  $y = 2(3^x)$

**4**  $y = 2(4^{-x})$

**5**  $y = 4(0.5^x)$



# Graphing Exponential Functions Answers

**James Stewart**



## Graphing Exponential Functions Answers:

*Algebra II Workbook For Dummies* Mary Jane Sterling, 2007-01-10 Do you have a grasp of Algebra II terms and concepts but can't seem to work your way through problems? No fear! This hands-on guide focuses on helping you solve the many types of Algebra II problems in an easy step-by-step manner. With just enough refresher explanations before each set of problems, you'll sharpen your skills and improve your performance. You'll see how to work with linear and quadratic equations, polynomials, inequalities, graphs, sequences, sets, and more. [Algebra II Workbook](#) Reza Nazari, Ava Ross, 2018-07-01 An excellent supplement to classroom textbooks, *Algebra II Workbook* provides students with the confidence and math skills they need to succeed in any math course they choose and prepare them for future study of Pre-Calculus and Calculus, providing a solid foundation of math topics with abundant exercises for each topic. It is designed to address the needs of math students who must have a working knowledge of algebra. Inside the pages of this comprehensive workbook, students can learn algebra 2 operations in a structured manner with a complete study program to help them understand essential math skills. It also has many exciting features, including dynamic design and easy-to-follow activities. A fun, interactive, and concrete learning process. Targeted skill-building practices. Fun exercises that build confidence. All solutions for the exercises are included, so you will always find the answers. *Algebra II Workbook* is an incredibly useful tool for those who want to review all topics being taught in algebra 2 courses. It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice, helping you to quickly master math skills. Get a copy today and see how fast you will improve with the *Algebra II Workbook*. Published by Effortless Math Education, [www.EffortlessMath.com](http://www.EffortlessMath.com). **SAT Math For Dummies with Online Practice** Mark Zegarelli, 2021-10-15 Go into the SAT relaxed and confident by preparing with this straightforward and practical math resource. A great math score on the SAT can unlock countless opportunities, especially in the STEM fields. With the help of *SAT Math For Dummies*, you'll have what it takes to succeed on this challenging section of the exam. This helpful guide offers the tools and techniques you need to hone your strengths, eliminate your weaknesses, and walk into the testing room poised and prepared to conquer the math section of the SAT. You'll learn to tackle basic and advanced algebra, geometry, and trigonometry with and without a calculator, just like you'll need to do on the test. The book also offers intuitive reviews of critical math concepts and skills, like evaluating, simplifying, and factoring algebra expressions, while preparing you for common pitfalls and traps that ensnare less-prepared students. This up-to-date resource will help you reduce test anxiety and stress by preparing with resources that mirror the tasks you'll have to perform on test day. Master time management and other test-taking strategies you'll need to get the results you want. Prove you're ready for the test by practicing with online resources that include three complete practice tests. Effective practice and preparation are the keys to succeeding on the math section of the SAT. And with *SAT Math For Dummies* in your arsenal, you'll have the strategies, knowledge, and skills that make extraordinary results possible. *Algebra and Trigonometry* Cynthia Y. Young, 2017-11-20 Cynthia Young's

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