

MATH TIP

Unlike a rigid transformation, a vertical stretch or vertical shrink will change the shape of the graph.

A vertical stretch stretches a graph away from the x -axis by a factor and a vertical shrink shrinks the graph toward the x -axis by a factor.

MATH TIP

Reflections over axes do not change the shape of the graph, so they are also rigid transformations.

Learning Targets:

- Describe transformations of the parent function $f(x) = x^2$.
- Given a transformation of the function $f(x) = x^2$, write the equation of the function.

SUGGESTED LEARNING STRATEGIES: Create Representations, Look for a Pattern, Group Presentation, Quickwrite, Identify a Subtask

- Graph the function $f(x) = x^2$ as Y1 on a graphing calculator. Then graph each of the following functions as Y2. Describe the graph of each function as a transformation of the graph of $f(x) = x^2$.

a. $g(x) = 2x^2$

b. $h(x) = 4x^2$

c. $j(x) = \frac{1}{2}x^2$

d. $k(x) = \frac{1}{4}x^2$

- Express regularity in repeated reasoning.** Describe any patterns you observed in the graphs from Item 1.

- Graph the function $f(x) = x^2$ as Y1 on a graphing calculator. Then graph each of the following functions as Y2. Identify and describe the graph of each function as a transformation of the graph of $f(x) = x^2$.

a. $g(x) = -x^2$

Springboard Algebra 1 Answer Key

R. Tyrrell Rockafellar, Roger J.-B. Wets

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Variational Analysis R. Tyrrell Rockafellar,Roger J.-B. Wets,2009-06-26 From its origins in the minimization of integral functionals the notion of variations has evolved greatly in connection with applications in optimization equilibrium and control This book develops a unified framework and provides a detailed exposition of variational geometry and subdifferential calculus in their current forms beyond classical and convex analysis Also covered are set convergence set valued mappings epi convergence duality and normal integrands

Modeling Life Alan Garfinkel,Jane Shevtsov,Yina Guo,2017-09-06 This book develops the mathematical tools essential for students in the life sciences to describe interacting systems and predict their behavior From predator prey populations in an ecosystem to hormone regulation within the body the natural world abounds in dynamical systems that affect us profoundly Complex feedback relations and counter intuitive responses are common in nature this book develops the quantitative skills needed to explore these interactions Differential equations are the natural mathematical tool for quantifying change and are the driving force throughout this book The use of Euler s method makes nonlinear examples tractable and accessible to a broad spectrum of early stage undergraduates thus providing a practical alternative to the procedural approach of a traditional Calculus curriculum Tools are developed within numerous relevant examples with an emphasis on the construction evaluation and interpretation of mathematical models throughout Encountering these concepts in context students learn not only quantitative techniques but how to bridge between biological and mathematical ways of thinking Examples range broadly exploring the dynamics of neurons and the immune system through to population dynamics and the Google PageRank algorithm Each scenario relies only on an interest in the natural world no biological expertise is assumed of student or instructor Building on a single prerequisite of Precalculus the book suits a two quarter sequence for first or second year undergraduates and meets the mathematical requirements of medical school entry The later material provides opportunities for more advanced students in both mathematics and life sciences to revisit theoretical knowledge in a rich real world framework In all cases the focus is clear how does the math help us understand the science

5 Principles of the Modern Mathematics Classroom Gerald Aungst,2015-10-09 Students pursue problems they re curious about not problems they re told to solve Creating a math classroom filled with confident problem solvers starts by introducing challenges discovered in the real world not by presenting a sequence of prescribed problems says Gerald Aungst In this groundbreaking book he offers a thoughtful approach for instilling a culture of learning in your classroom through five powerful yet straightforward principles Conjecture Collaboration Communication Chaos and Celebration Aungst shows you how to Embrace collaboration and purposeful chaos to help students engage in productive struggle using non routine and unsolved problems Put each chapter s principles into practice through a variety of strategies activities and by incorporating technology tools Introduce substantive lasting cultural changes in your classroom through a manageable gradual shift in processes and behaviors Five Principles of the Modern Mathematics Classroom offers new ideas for inspiring math students by building a more engaging and collaborative learning environment Bravo This book brings a conceptual framework for K 12 mathematics to life As a parent and as the executive director of Edutopia I commend Aungst for sharing his 5 principles This is a perfect blend of inspiring and practical Highly recommended Cindy Johanson Executive Director Edutopia George Lucas Educational Foundation Aungst ignites the magic of mathematics by reminding us what makes mathematicians so passionate about their subject matter Grounded in research his work takes us on a journey into classrooms so that we may take away tips to put into practice today Erin Klein Teacher Speaker and Author of Redesigning Learning Spaces

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Algebra 1 Patricia L. Walker,1986

The Science of Reading Margaret J. Snowling,Charles Hulme,2013-04-22 The Science of Reading A Handbook brings together state of the art reviews of reading research from leading names in the field to create a highly authoritative multidisciplinary overview of contemporary knowledge about reading and related skills Provides comprehensive coverage of the subject including theoretical approaches reading processes stage models of reading cross linguistic studies of reading reading difficulties the biology of reading and reading instruction Divided into seven sections Word Recognition Processes in Reading Learning to Read and Spell Reading Comprehension Reading in Different Languages Disorders of Reading and Spelling Biological Bases of Reading Teaching Reading Edited by well respected senior figures in the field

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