

Lesson 11-2

Shrinking, Stretching, and Reflecting Parabolas

ACTIVITY 11

continued

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

c. $j(x) = -\frac{1}{4}x^2$

4. Describe any patterns you observed in the graphs from Item 3.

5. Make a conjecture about how the sign of k affects the graph of $g(x) = kx^2$ compared to the graph of $f(x) = x^2$. Assume that $k \neq 0$.

6. Make a conjecture about whether the absolute value of k affects the graph of $g(x) = kx^2$ when compared to the graph of $f(x) = x^2$. Assume that $k \neq 0$ and write your answer using absolute value notation.

7. **Make use of structure.** Without graphing, describe each function as a transformation of $f(x) = x^2$.

a. $h(x) = 6x^2$

b. $j(x) = -\frac{1}{10}x^2$

My Notes

MATH TIP

In Item 6, consider the situation in which $|k| > 1$ and the situation in which $|k| < 1$.

Springboard Algebra 2 Answers Unit

**Alfred S. Posamentier, Beverly S.
Smith, Jay Stepelman**



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around seven key themes Literacy Education Relations of Power Reflection Meaning Making Evaluation and Mathematics and Science There are two distinctive features in this title First is its international focus In addition to providing readers with an introduction to pedagogy in Singapore it contains discussions on the environments in Australia Canada Hong Kong South Africa and the United States A second focus is a strong commitment to transnational research Although influenced by the theoretical perspectives of Bourdieu Luke and others the authors are primarily focused on classroom practices This title will be of interest to students researchers and practitioners who are interested in broad thematic and comparative issues With a number of chapters on Literacy Education Mathematics and Science it will also be of appeal to those more interested in content specific areas

Computational Experiment Approach to Advanced Secondary Mathematics Curriculum

Sergei Abramovich, 2014-05-08 This book promotes the experimental mathematics approach in the context of secondary mathematics curriculum by exploring mathematical models depending on parameters that were typically considered advanced in the pre digital education era This approach by drawing on the power of computers to perform numerical computations and graphical constructions stimulates formal learning of mathematics through making sense of a computational experiment It allows one in the spirit of Freudenthal to bridge serious mathematical content and contemporary teaching practice In other words the notion of teaching experiment can be extended to include a true mathematical experiment When used appropriately the approach creates conditions for collateral learning in the spirit of Dewey to occur including the development of skills important for engineering applications of mathematics In the context of a mathematics teacher education program the book addresses a call for the preparation of teachers capable of utilizing modern technology tools for the modeling based teaching of mathematics with a focus on methods conducive to the improvement of the whole STEM education at the secondary level By the same token using the book's pedagogy and its mathematical content in a pre college classroom can assist teachers in introducing students to the ideas that develop the foundation of engineering profession

Intermediate Algebra Elaine Hubbard, Ronald D. Robinson, 2002-02-26

Teaching Secondary

Mathematics Alfred S. Posamentier, Beverly S. Smith, Jay Stepelman, 2006 For courses in Secondary Mathematics Methods Teaching Secondary Mathematics Techniques and Enrichment Units 7th edition has been thoroughly revised to discuss current methods of teaching mathematics considering all aspects and responsibilities of the job beginning with a brief overview of the history of mathematics education and how it has evolved over time to include standards for teaching and assessment The authors address how to craft rich and effective daily lesson plans and how to use a variety of instructional tools and strategies to reach all students in a classroom Problem solving is a key focus from its instructional underpinnings to its recreational and motivational aspects The second part of the text provides mathematics teachers with a collection of enrichment units appropriate for the entire secondary school curriculum spectrum

Teaching Children Mathematics, 2004

Tech Directions, 1994

The Software Encyclopedia, 1988

Teaching Secondary School Mathematics: Techniques

And Enrichment Alfred S Posamentier, Beverly Smith, 2020-09-18 The primary aim of this book is to provide teachers of mathematics with all the tools they would need to conduct most effective mathematics instruction The book guides teachers through the all important planning process which includes short and long term planning as well as constructing most effective lessons with an emphasis on motivation classroom management emphasizing problem solving techniques assessment enriching instruction for students at all levels and introducing relevant extracurricular mathematics activities Technology applications are woven throughout the text A unique feature of this book is the second half which provides 125 highly motivating enrichment units for all levels of secondary school mathematics Many years of proven success makes this book essential for both pre service and in service mathematics teachers School Library Journal ,1993 **Teaching Secondary School Mathematics** Alfred S. Posamentier, Jay Stepelman, 1999 Resource for inservice and pre service mathematics teachers The text discusses methods of teaching the subject and provides a collection of enrichment units to enhance the curriculum **Springboard Mathematics** ,2015 **Mathematics Teaching in the Middle School** ,2008-08 **On Cassette** ,1989 *Journal of the American Statistical Association* ,2006

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