

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 Math Algebra Unit 5 Answers

Alan Garfinkel, Jane Shevtsov, Yina Guo



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Algebra in the Early Grades James J. Kaput, David W. Carraher, Maria L. Blanton, 2017-09-25 This volume is the first to offer a comprehensive research based multi faceted look at issues in early algebra In recent years the National Council for Teachers of Mathematics has recommended that algebra become a strand flowing throughout the K 12 curriculum and the 2003 RAND Mathematics Study Panel has recommended that algebra be the initial topical choice for focused and coordinated research and development in K 12 mathematics This book provides a rationale for a stronger and more sustained approach to algebra in school as well as concrete examples of how algebraic reasoning may be developed in the early grades It is organized around three themes The Nature of Early Algebra Students Capacity for Algebraic Thinking Issues of Implementation Taking Early Algebra to the Classrooms The contributors to this landmark volume have been at the forefront of an effort to integrate algebra into the existing early grades mathematics curriculum They include scholars who have been developing the conceptual foundations for such changes as well as researchers and developers who have led empirical investigations in school settings *Algebra in the Early Grades* aims to bridge the worlds of research practice design and theory for educators researchers students policy makers and curriculum developers in mathematics education **Resources in**

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