

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 $|k| < 1$.

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