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.

 Make a conjecture about how the sign of k affects the graph of g(x) = kx² compared to the graph of f(x) = x². Assume that k ≠ 0.

6. Make a conjecture about whether the absolute value of k affects the graph of g(x) = kx² when compared to the graph of f(x) = x². Assume that k ≠ 0 and write your answer using absolute value notation.

 Make use of structure. Without graphing, describe each function as a transformation of f(x) = x².

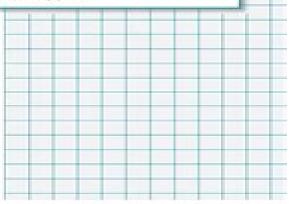
a.
$$h(x) = 6x^3$$

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

MATH TIP

My Notes

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



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Alan Garfinkel, Jane Shevtsov, Yina Guo

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