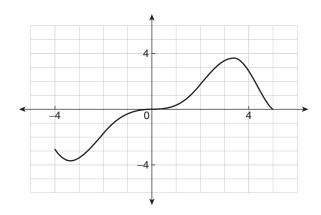
Building Functions



- 1. Sketch the graph of f(x) = D(x) 3 for $-4 \le x \le 4$.
- 2. Sketch the graph of g(x) = D(x 1) for $-4 \le x \le 4$.
- 3. Sketch the graph of $h(x) = -\frac{1}{2}D(x)$ for $-4 \le x \le 4$.
- 4. Sketch the graph of j(x) = D(2x) for $-2 \le x \le 2$.
- 5. What is the *y*-coordinate of x = 5 for f, g, h, j?
- 6. What is the *y*-coordinate of x = 0 for f, g, h, j?
- 7. If the maximum value of D(x) occurs at (3.4, 3.6), where is the maximum value for f, g, h, j?

Graph created using Desmos.com

Retrieved from the companion website for *Your Mathematics Standards Companion, High School: What They Mean and How to Teach Them* by Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, and Marilyn E. Strutchens. Thousand Oaks, CA: Corwin, www.corwin.com. Reproduction authorized only for the local school site or nonprofit organization that has purchased this book.