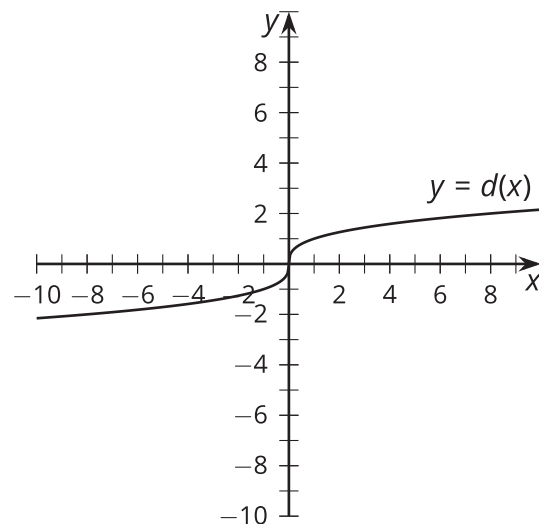
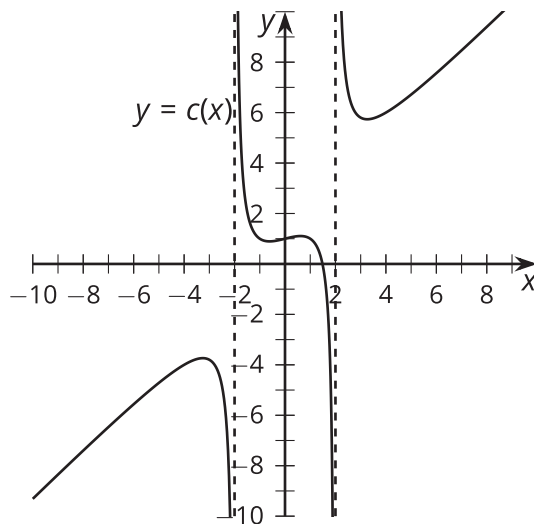
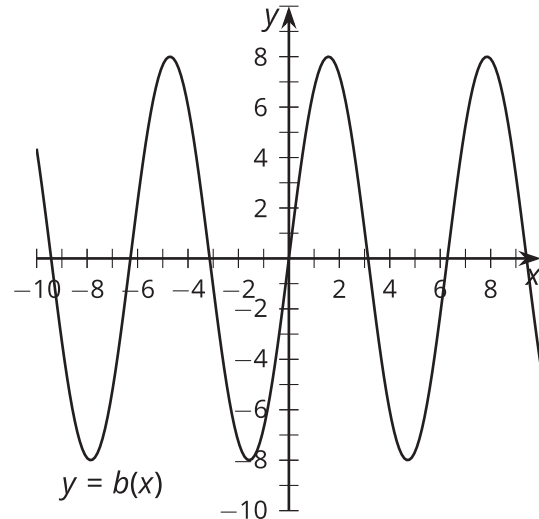
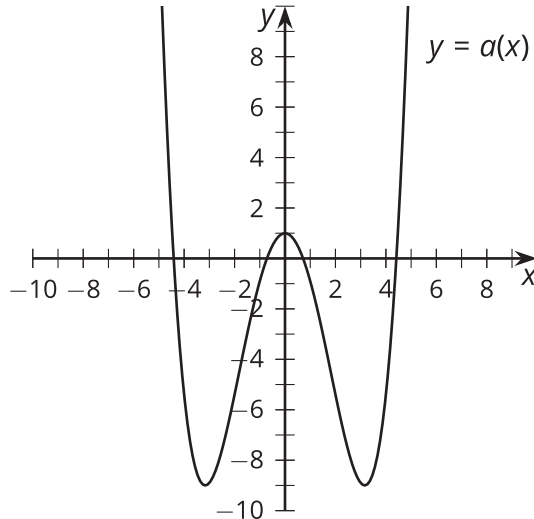


Lesson 5 Practice Problems

1. Classify each function as odd, even, or neither.

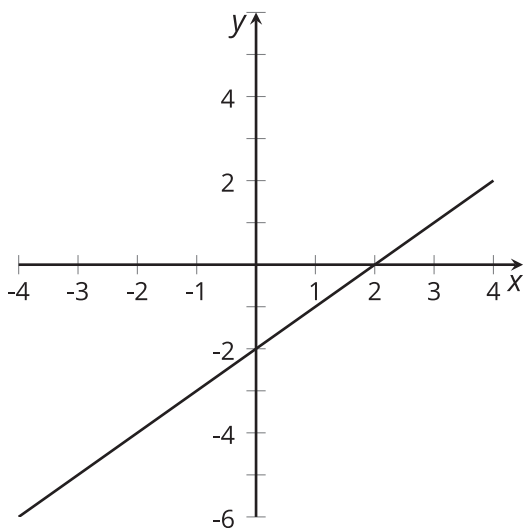


2. The table shows the values of an even function f for some inputs.

x	-4	-3	-2	-1	0	1	2	3	4
$f(x)$	2		8		10	-1		0	

Complete the table.

3. Here is the graph of $y = x - 2$.



a. Is there a vertical translation of the graph that represents an even function? Explain your reasoning.

b. Is there a vertical translation of the graph that represents an odd function? Explain your reasoning.

4. The function f is odd. Which statements must be true? Select **all** that apply.

- A. If $f(5) = 2$, then $f(-5) = 2$.
- B. If $f(5) = 3$, then $f(-5) = -3$.
- C. Reflection over the y -axis takes the graph of f to itself.
- D. Reflecting f across both axes takes the graph of f to itself.
- E. $f(0) = 0$

5. Find the exact solution(s) to each of these equations, or explain why there is no solution.

a. $\frac{1}{4}\sqrt[3]{d} = 15$

b. $-\sqrt[3]{e} = 7$

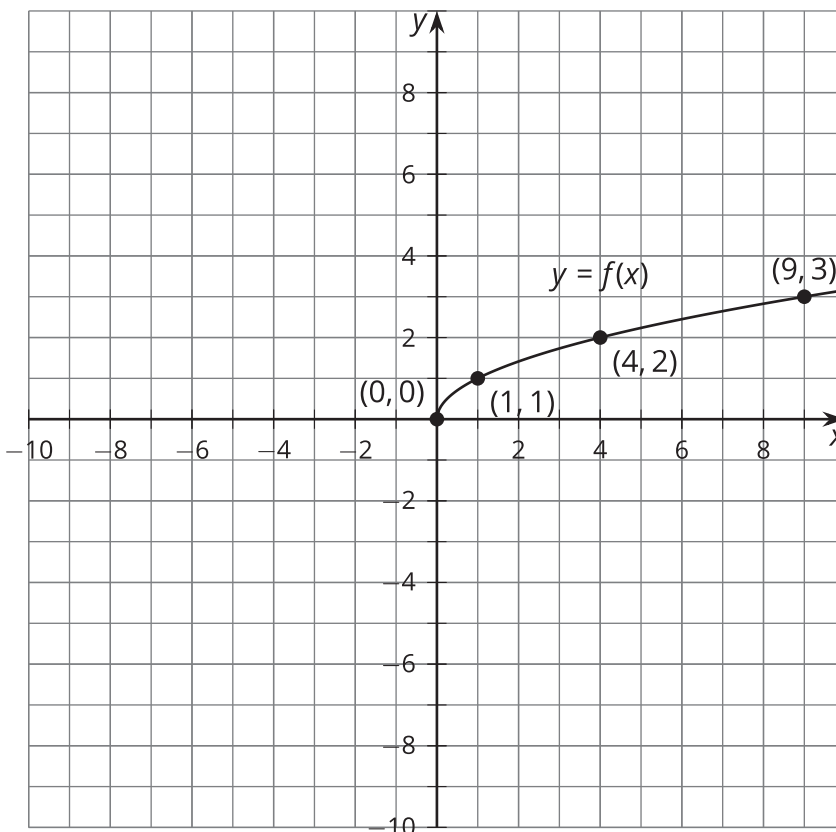
c. $\sqrt[3]{f-5} + 2 = 4$

(From Unit 3, Lesson 8.)

6. Here is the graph of f .

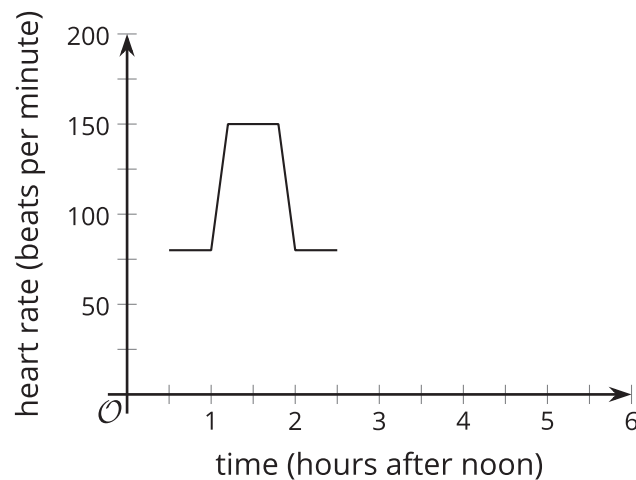
a. Graph the function g given by $g(x) = -f(x)$.

b. Graph the function h given by $h(x) = f(-x)$.



(From Unit 5, Lesson 4.)

7. The graph models Priya's heart rate before, during, and after a run.



- What was Priya's approximate heart rate before and after the run?
- About how high did Priya's heart rate get during the run?
- Sketch what the graph would look like if Priya went for the run three hours later.

(From Unit 5, Lesson 2.)