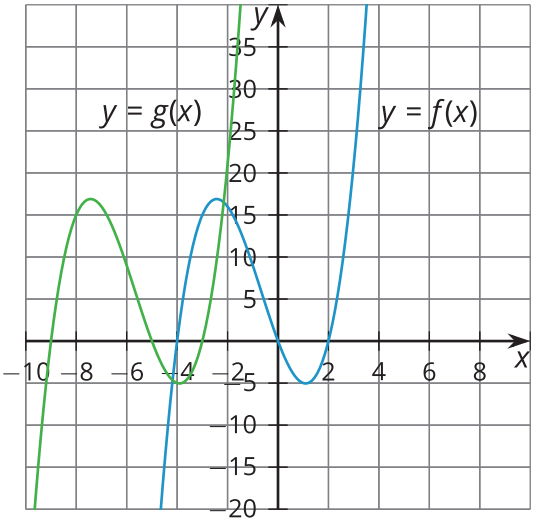
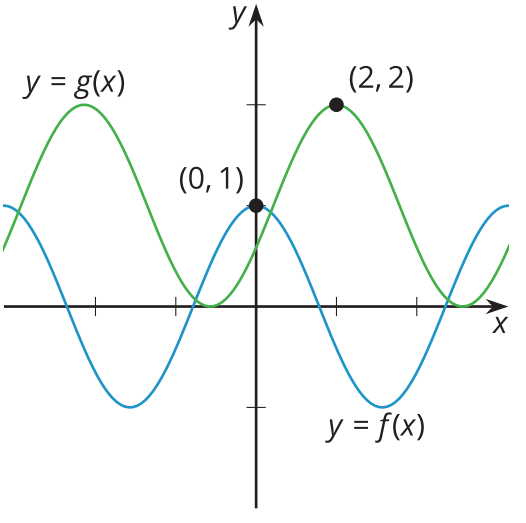
Lesson 1 Practice Problems

1. Describe a transformation that gives the graph representing g from the graph representing f.

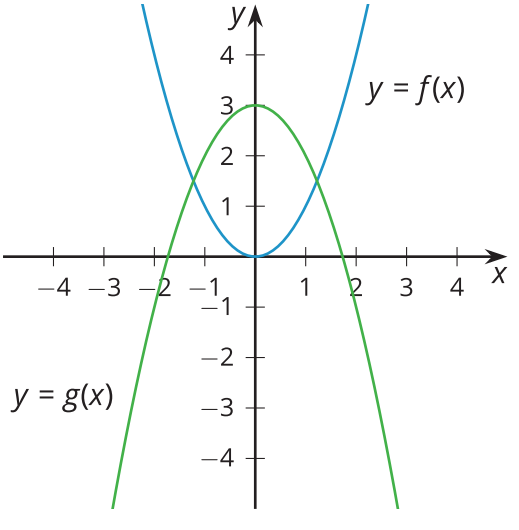
a.



b.

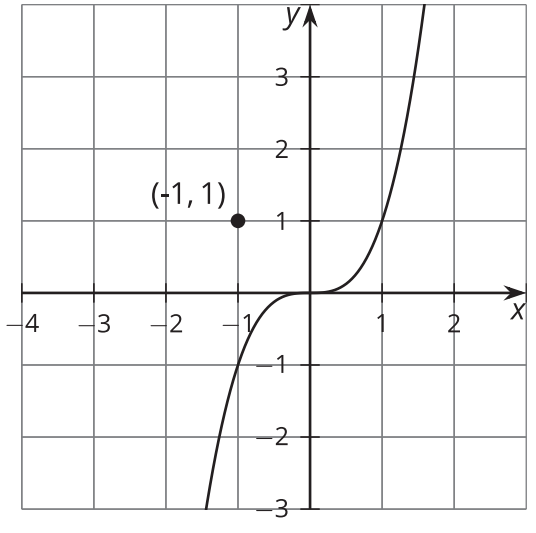


c.

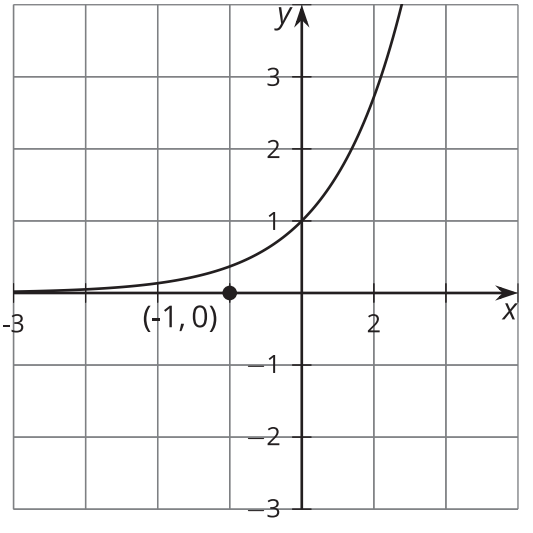


2. Describe a way to transform each graph so that it goes through the labeled points.

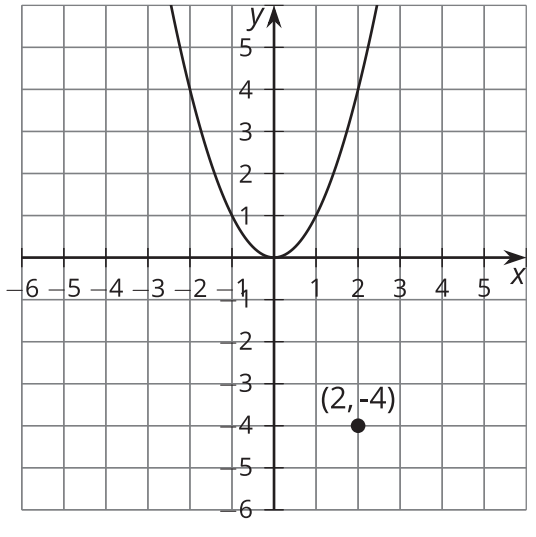
a.



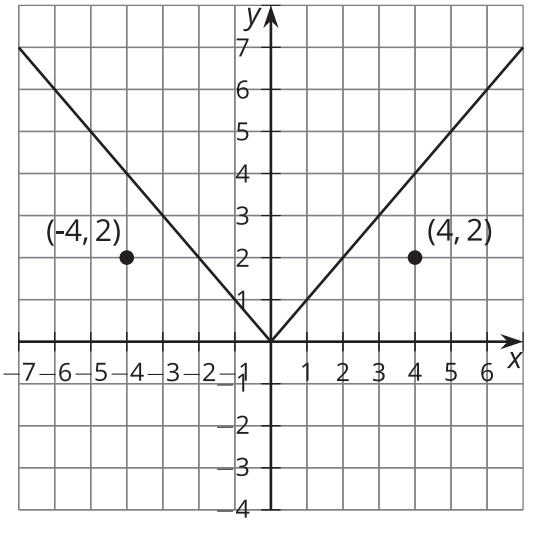
b.



c.

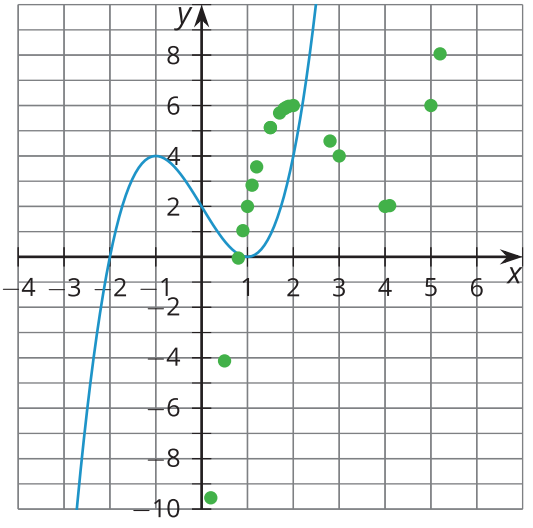


d.

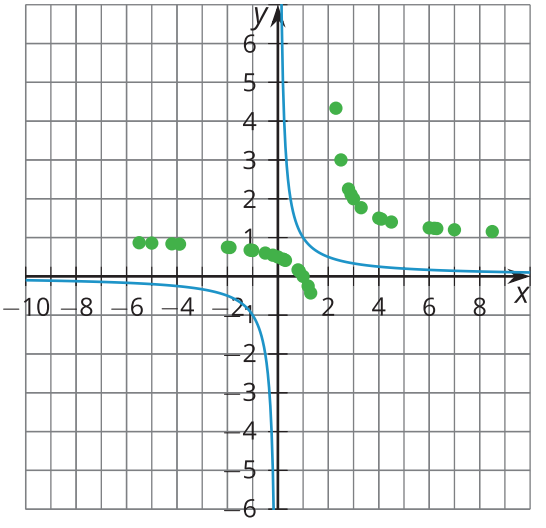


3. Describe a way to transform each graph so that it better matches the data.

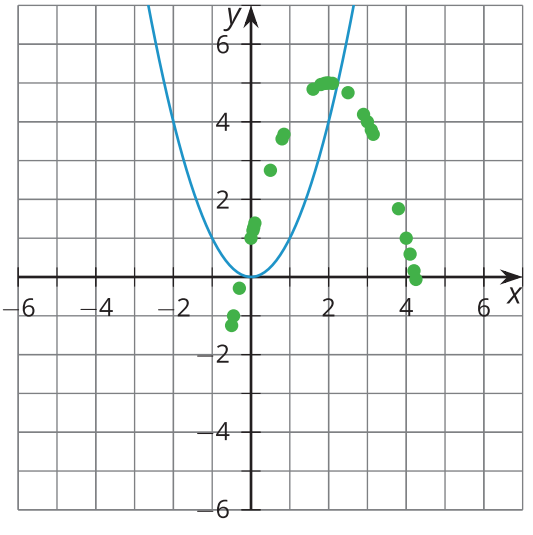
a.



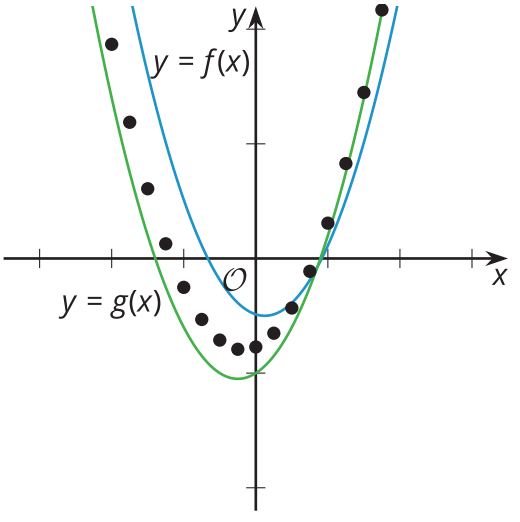
b.



c.



4. Does the function f or the function g fit the data better? Explain your reasoning.



5. For the polynomial function $A(x) = 2x^3 + 5x^2 - 28x - 15$ we know $(x + 5)$ is a factor. Rewrite $A(x)$ as a product of linear factors.

(From Unit 2, Lesson 13.)