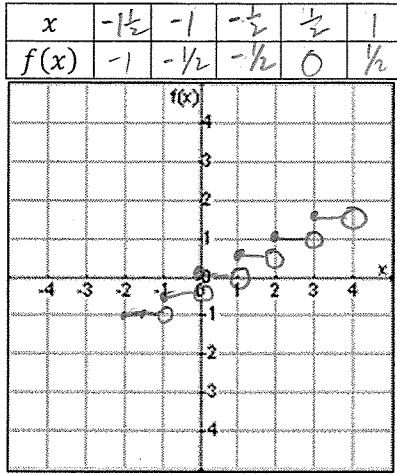


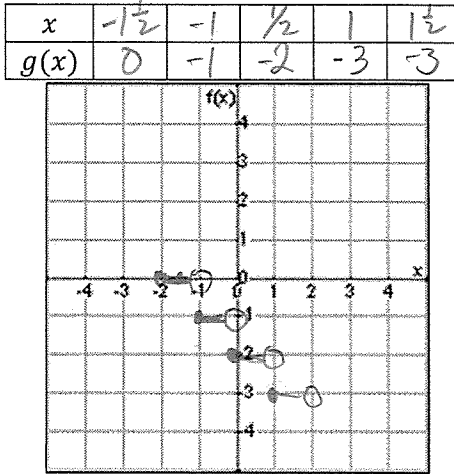
Lesson 8.2

Fill out an x/y chart and graph each of the following functions.

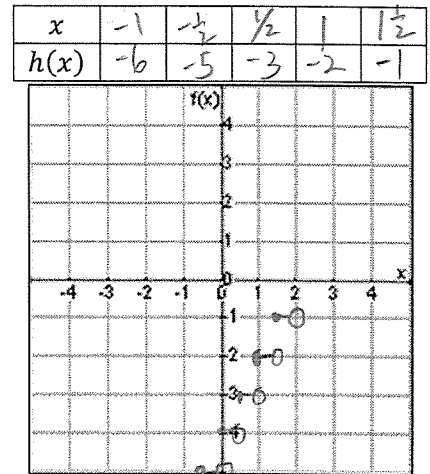
1. $f(x) = \frac{1}{2}[x]$



2. $g(x) = -[x + 2]$

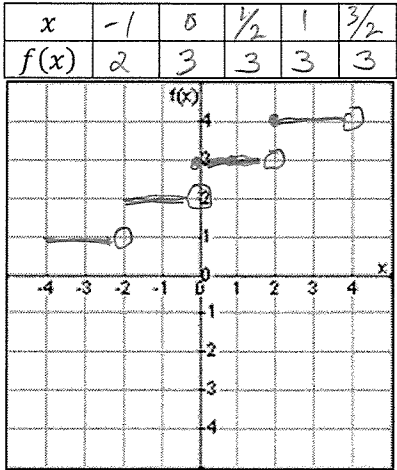


3. $h(x) = [2x] - 4$



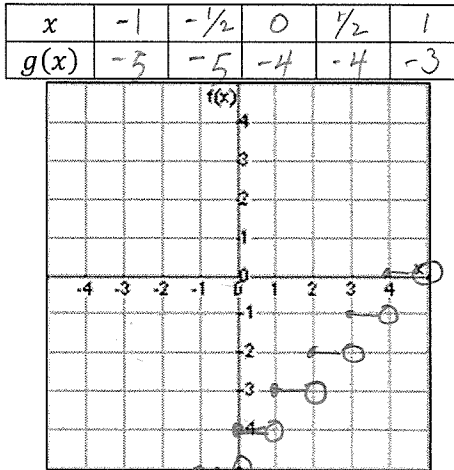
KEY
← horizontal stretch

4. $f(x) = [\frac{1}{2}x] + 3$



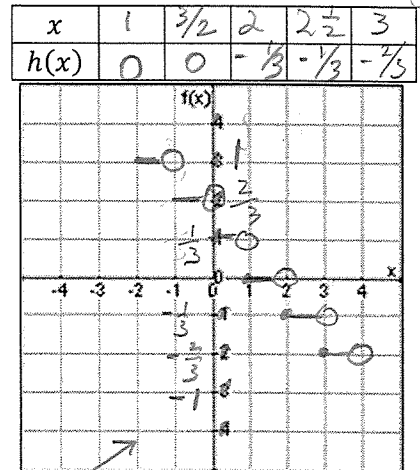
← horizontal stretch

5. $g(x) = [-x] - 4$



← reflect across y-axis

6. $h(x) = -\frac{1}{3}[x - 1]$



← reflect across x-axis
← vertical shrink
← shift right

Given that $f(x) = [x]$ is the parent function, describe the transformation of $g(x)$.

7. $g(x) = [\frac{1}{2}x + 2]$

- ↑
- ① horizontal stretch by factor of 2
 - ② shift left 2x

8. $g(x) = -[x] + 4$

- ① shift up 4 units.
- ② reflect across x-axis.

9. $g(x) = [-x - 6]$

- ① reflect across y-axis
- ② shift right 6x.

* I changed y values to $-\frac{1}{3}, -\frac{2}{3}, -\frac{3}{3},$ etc.