

## Homework: Functions I

Due Tuesday, April 12th

### I. Domains.

- A. Read “The Domain of a Function,” page 219.
- B. Make sure you can do problems #35-56 on page 221. Do not turn in your work to all of these problems.
- C. To turn in: write up solutions to problems #36, 40, 46, and 54 on page 221. Copy down the function onto your homework. Neatly show your steps.

### II. Evaluating a functions.

- A. Read “Evaluating a Function” on page 217.
- B. Make sure you can do problems #13-20 and #25-34 on page 221. Do not turn in your work to all of these problems.
- C. To turn in: write up solutions to problems #16 and 28 on page 221.

[A.]

### III. Transforming graphs.

- (a) Read Section 3.4. This will help you with Lab #3 as well.
- (b) To turn in: Do problem #20 page 257. Use graph paper, or at least a ruler.

Here’s a tip for part (e): Always do the transformation that is closest to the  $x$  first. So for  $y = -g(x) + 2$ , do the reflection (the “-”) first, and then do the vertical shift (the “+2”).