1. (10 points) Match the function to the graph.

- Reciprocal Function $h$
- Absolute Value Function $a$
- Square Root Function $f$
- Square Function $d$
- Cube Function $e$
2. (10 points) Sketch the graph $f(x) = -(x + 1)^2 - 3$ using transformations. Be sure to label 3 points at each transformation, the graph at each transformation and what happens at each transformation.

Figure 1: $x^2$

Figure 2: $-x^2$

Figure 3: $-(x + 1)^2$

Figure 4: $-(x + 1)^2 - 3$

3. (Bonus +2) What is my office number and what are my office hours? Carver 403, MW 10:00-10:50, 1:10-2:00