Quiz #1, 8/30Math 156 (Calculus I), Fall 2022

Problem 1 is worth 5 points, and problem 2 is worth 5 points, for a total of 10 points. Remember to *show your work* on all problems.

- 1. In this problem, let $f(x) = \sqrt{x+1}$.
 - (a) Sketch the graph of y = f(x).
 - (b) State the domain and range of f(x).
 - (c) Let g(x) be the function whose graph is obtained from the graph of f(x) by reflecting across the x-axis. Give a formula for g(x).

- 2. In this problem, let $f(x) = 2\cos(x)$.
 - (a) Sketch the graph of y = f(x).
 - (b) State the domain and range of f(x).
 - (c) Is f(x) an even function, odd function, both, or neither? Explain what this means both algebraically (in terms of formulas) and geometrically (in terms of graphs).