

Math16500 Section 24244 Quiz 1

Fall 2022, August 29

Name:

Problem 1: Find whether the following functions are even or odd or neither.

1. $f(x) = \sqrt{2-x} - \sqrt{2+x}$

2. $f(x) = \lfloor x \rfloor$ (the floor function)

[2 x 10 pts].

Problem 2: Find the domain of the function

$$g(x) = \frac{x+1}{\sqrt{4-x^2}}$$

[30 pts].

Bonus Problem: Find the domain of the function

$$h(x) = \frac{x+1}{\sqrt{(x+1)^2(4-x^2)}}$$

[10 pts].