Show all work in a Word document for full credit.

1. Given that

Find , , , .

In problems 2 through 4, determine whether the function is even, odd, or neither. Explain the process used to make that determination.

2.

3.

4.

In problems 5 through 8, and . Find the value of the composite function, if it exists.

5.

6.

7.

8 .

For problems 9 through 11, construct and simplify the difference quotient .

9.

10.

11.

In problems 12 and 13, find and and the domain of each.

12. ,

13. ,