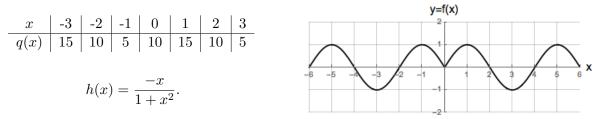
6. [10 points] Consider the functions f(x), h(x) and q(x)



a. [2 points] Suppose that one of the functions above is a periodic function whose period is an integer less than six. Find the periodic function and determine its period.

The function ______ is periodic with period ______.

b. [2 points] Which of the functions above are odd? Circle all that apply.

$$q(x)$$
 $h(x)$ $f(x)$ NONE

- c. [2 points] Which of the functions above are even? Circle all that apply.
 - q(x) h(x) f(x) NONE
- **d**. [4 points] Consider an even function y = p(x) that has range [-2, 2] and the function g(x) = 5p(-2x) + 1.

i) What is the range of g(x)? Write your answer using inequalities or interval notation.

Range of g(x): _____

ii) Is g(x) even, odd or neither? Circle your answer.

EVEN ODD NEITHER