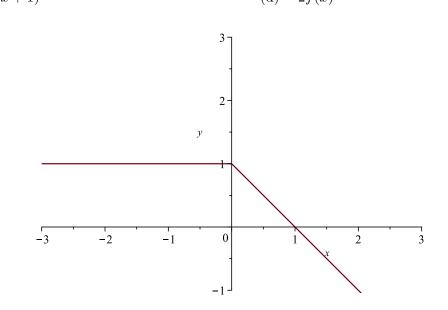
Homework 5

Problem 1 is similar to the example on page 95. Problem 2 is similar to the example on page 127. Problem 3 is similar to the examples on page 152 and 157. Problem 4 is similar to Problem 32 on page 164.

- 1. Determine analytically if the following functions are even, odd or neither. That is to find f(-x) and then compare it to f(x) or -f(x).
 - (a) $f(x) = x^3 + x^2 + 1$
 - (b) $f(x) = 1 x^2$
 - (c) $f(x) = x x^3$
- 2. The graph of y = f(x) is given below. Graph the following transformed functions.
 - (a) f(x) + 1(b) f(x+1)(c) f(-x+1)(d) -2f(x)



- 3. Find the point-slope form, the slope-intercept form, the x-intercept, and the y-intercept of the line that
 - (a) passes through P(-1,1) and Q(1,2);
 - (b) passes through P(-1, 1) with slope equal to 2.
- 4. A fitness trainer is paid \$1,800 a month plus 15% commission on his monthly sales (of personal training contracts) of x dollars. Find a linear function that represents his total monthly pay, called W, in terms of x. What must his monthly sales be in order for him to earn \$3,000 for the month?