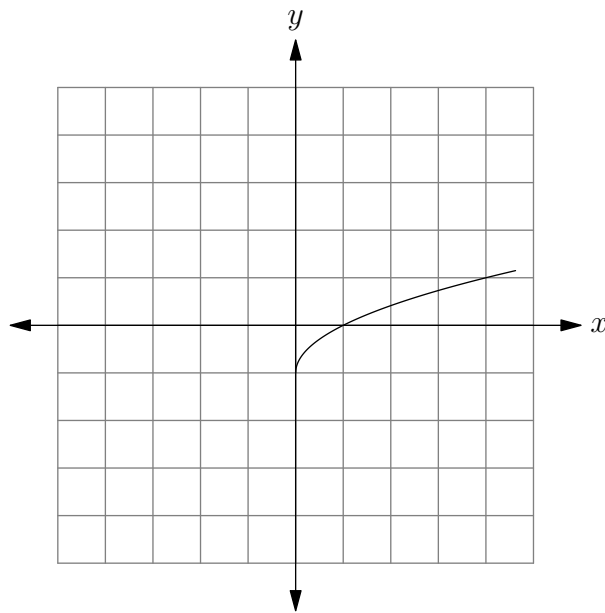


Retake 4B: Symmetry and functions

MATH 1110, FALL 2017

NAME:

1. (5 points) Part of a graph is shown below. Suppose you know this graph is symmetric with respect to the y -axis. Use this information to sketch the remaining part of the graph.



2. (5 points) Consider the following equation.

$$y^3 = x^3 - x$$

Test this equation to see if the solutions are symmetric with respect to the x -axis, the y -axis, or the origin.

3. (10 points) Define the function $h(x) = 4 - x^2$. Evaluate each expression, and simplify your answer as much as possible.

(a) $h(-3)$

(b) $h(5)$

(c) $h(x + 2)$