1. [9 points] The entire graph of a function f(x) is shown below to the left. Also shown is a table of some values for an invertible function g(x), and formula for a function h(x).



a. [2 points] Find the **domain** of f(x). Give your answers using interval notation or using inequalities. You do not need to explain or justify your answer.

Domain: _

b. [2 points] Find the **range** of h(x) (the function given by a **formula**). Give your answers using interval notation or using inequalities. Show all work, including any computations or graph sketches.

Range: _____

- c. [5 points] Find the value of each of the following; write N/A if a value does not exist or there is not enough information to find it. Showing work is not required, but may make you eligible for partial credit in some cases.
 - (i) g(f(2)) = _____
 - (ii) $h(g^{-1}(0)) =$ ______
 - (iii) All x such that h(x) = -5, x = _____
 - (iv) g(h(2)) = _____
 - (v) If $q(x) = \frac{2}{3}f(x-2)$, then q(-1) =______