8. [8 points]

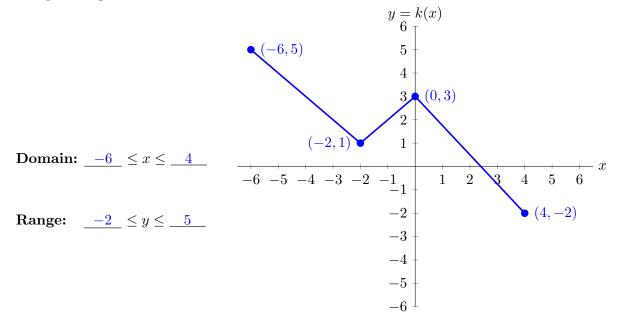
a. [5 points] The function h(x), with domain $-3 \le x \le 2$, has the table of values shown below. Also, h(x) is <u>linear</u> between each consecutive pair of points in the table.

x	-3	-1	0	2
h(x)	-4	0	-2	3

Consider the function

$$k(x) = -h\left(\frac{1}{2}x\right) + 1.$$

Find the domain and range of k(x), and then carefully sketch the entire graph of k(x) on the given axes. Make your graph large and unambiguous, and be sure that the coordinates of important points are clear.



b. [3 points] Below is the graph of a function j(x). Also shown is the graph of m(x), which was obtained from j(x) through one or more transformations. Find a formula for m(x) in terms of the function j(x).

