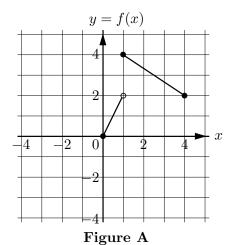
5. [8 points] The graph of the function f defined on the domain [0,4] is drawn below in Figure A.



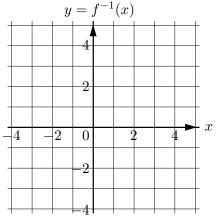


Figure B

- a. [4 points] Sketch the graph $y = f^{-1}(x)$ in Figure B.
- **b.** [4 points] Write down a piecewise formula for the function f.

$$f(x) = \begin{cases} ------ \\ ------ \end{cases}$$

6. [6 points] Let g be a function defined on the real line. Some values of g are shown below.

x	0	1	2	3
g(x)	0	5	6	7

a. [2 points] If g were an odd function, what should the value of g(-1) be?

$$g(-1) =$$

b. [2 points] If g were a periodic function of period 5, what should the value of g(-3) be?

$$g(-3) =$$

c. [2 points] Let k be the function defined by k(x) = g(2x + 5). What is k(-1)?

$$k(-1) =$$
