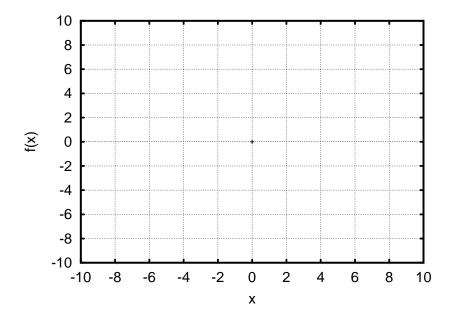
Pondering Inverses

Consider f(x) given below:

x	f(x)
-2	-6
-1	-4
0	-2
1	0
2	2
3	4

- 1. What is $f^{-1}(0)$?
- 2. What is $f^{-1}(-4)$?
- 3. Graph f(x).
- 4. Graph $f^{-1}(x)$.
- 5. How are the graphs of f(x) and $f^{-1}(x)$ related? Why?



Let S(Q) give the fraction of TAB patrons consuming salads as a function of the quality of lunch. Assume that the lunch quality Q is measured on a scale of 1 to 5, with 5 indicating yumminess and 1 indicating inediblity.

- 1. Sketch a possible graph for S(Q).
- 2. Sketch the inverse of S(Q).
- 3. What is the meaning of S(4.2) = 0.5?
- 4. What is the meaning of $S^{-1}(0.78) = 3.9$?