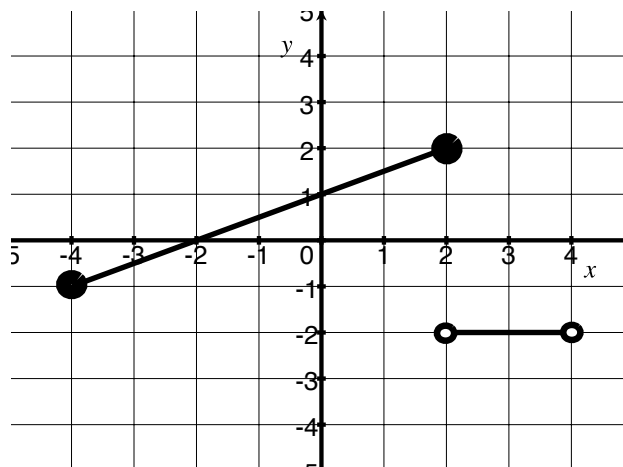# Quiz 2

Show *all* your work. No credit is given without reasonable supporting work. There are *two* sides to this quiz.

1. Let f be the graph below and to the right.

   (a) [1] (GraphWks #5)
       Find the domain of f.

   (b) [3] (WebHW4 #13)
       Write an equation for
       the function

   $$f(x) = \begin{cases} & \text{if } -4 \le x \le 2 \\ & \text{if } 2 < x < 4 \end{cases}$$

   (c) [3] (§1.5 #16) Graph $2f(x) + 1$.

2. (WebHW4 #16) It costs a $20 flat fee to rent a power drill, plus $4 a day starting with the first day.

   (a) [2] Write a function that represents the total charge as a function of days.

   (b) [1] Define any variables you used above. (i.e. if you used x, say what x means.)