

Quiz 2

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

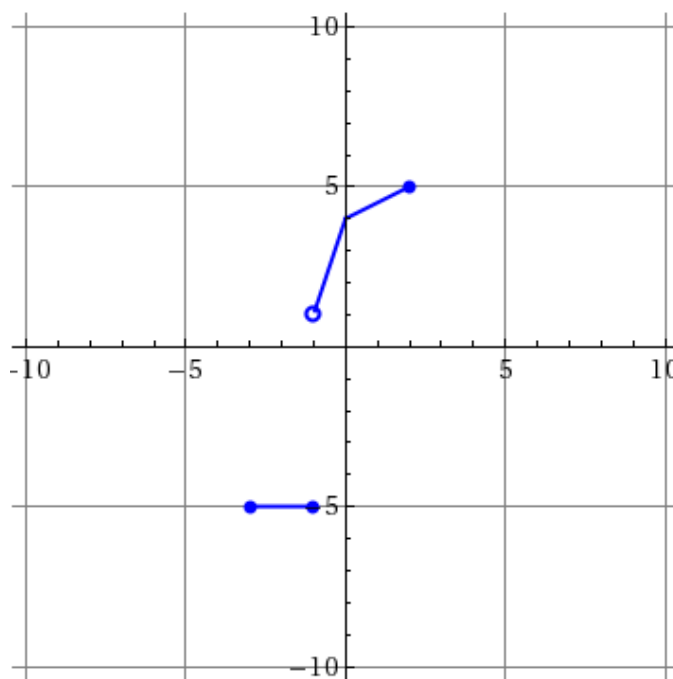
1. (WebHW2 #11) Let f be the piecewise defined function whose graph is shown below on the right:

- (a) (WebHW#7) [1] Approximate $f(2)$ and $f(-1)$.

- (b) (Transformation Wks #5e) [1] For what x value(s) does $f(x) = 4$?

- (c) (WebHW #11) [1] What is the domain of f ?

- (d) (Transformation Wks #5c) [2] Draw the graph of $g(x) = f(x) - 4$.



2. Let $f(x) = \frac{2}{x}$ and $g(x) = \frac{4}{x+4}$ for the following questions.

(a) (§2.1 #15) [2] Find $g(a-1)$ and simplify.

(b) (§2.7 #5) [2] Find fg and the domain of fg

(c) (WebHW3 #7) [1] Find $(f \circ g)(3)$ and simplify.