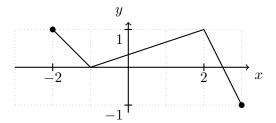
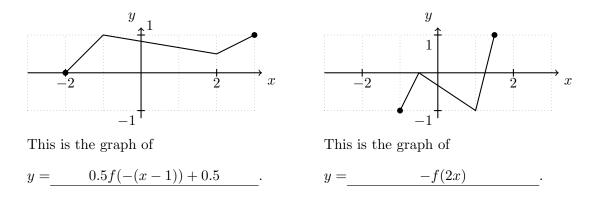
2. [12 points] Parts a. and b. of this problem are unrelated to each other.
a. [6 points] The graph of y = f(x), defined on [-2,3] is given below.



For each of the following two graphs, write a formula involving f that could give the graph.



b. [6 points] If a function f(x) has domain [0,3), range $[-1,\infty)$, and a vertical asymptote at x = 3, find the domain, range and vertical asymptote of the function

$$g(x) = \frac{1}{3}f(-x+1) - 2.$$

(i) The domain of g(x) is _____.

- (ii) The range of g(x) is $[-7/3, \infty)$.
- (iii) The vertical asymptote of g(x) is ______.