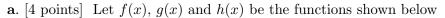
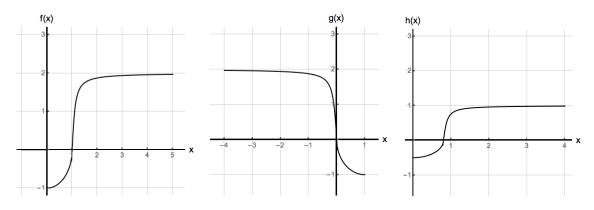
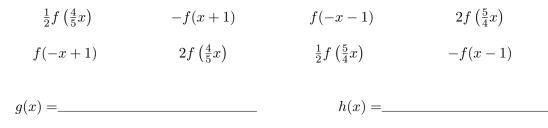
## 8. [9 points]





Find formulas for the functions g(x) and h(x) as transformations of the function f(x). A list of possible answers is shown below. If the correct answer is not included in the list, write your own formula in terms of transformations of the function f(x).



b. [5 points] A bookstore keeps an e-mail list of its regular customers. The list had 250 and 750 e-mail addresses in 2004 and 2010 respectively. Let M(t) be the number of e-mail addresses in the list t years after 2000. Suppose M(t) is a power function. Find a formula for M(t). Your answer must be written in **exact form**. Show all your work.