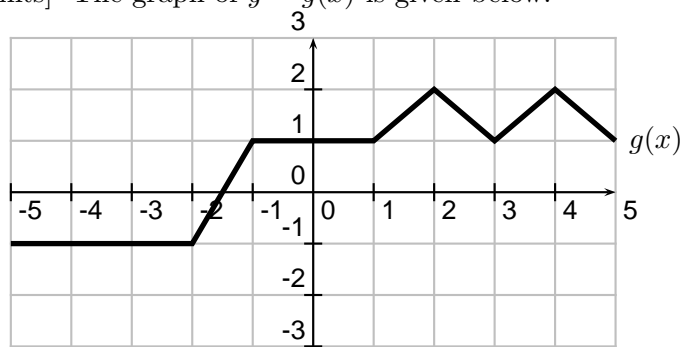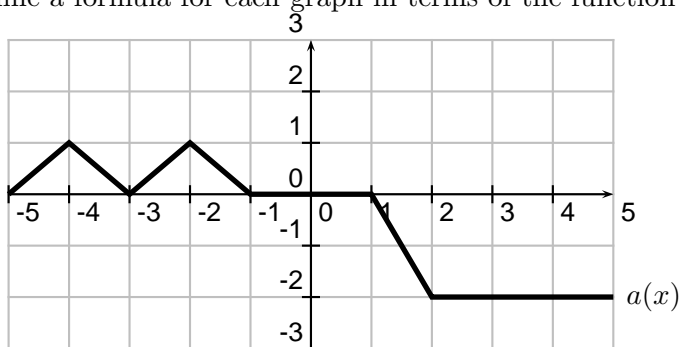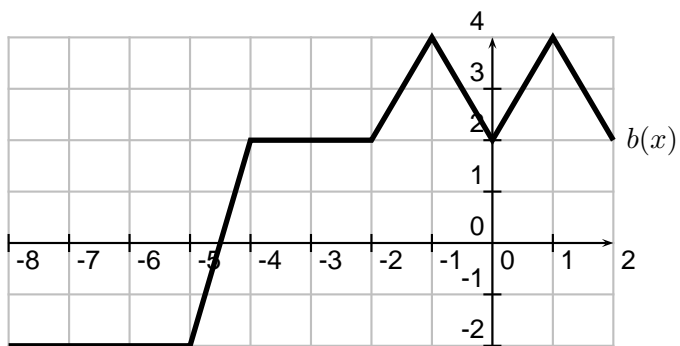**5.** [10 points] The graph of $y = g(x)$ is given below.

a. [6 points] The graphs of the following two functions are related to the graph of g. Determine a formula for each graph in terms of the function g.

$a(x) = $ _____

$b(x) = $ _____

b. [4 points] Carefully sketch as much of the function $c(x)$ as will fit on the axes below, where

$$c(x) = -g(x - 1) + 2.$$