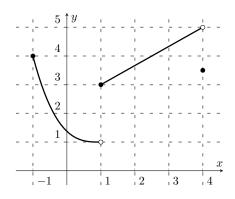
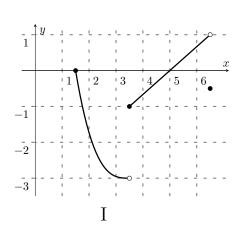
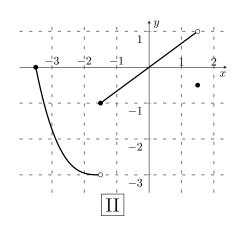
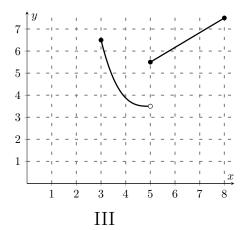
6. [9 points] The function h(x) is given in the graph below. Note that h is linear for $1 \le x < 4$.



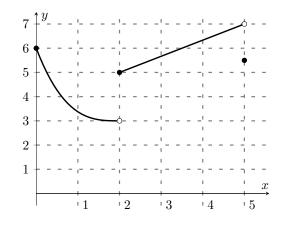
- **a.** [3 points] Find all the values of x for which $h(x) \le 4$. $Solution: -1 \le x \le 2.5$ or x = 4.
- **b.** [2 points] Choose which of the graphs I, II, and III corresponds to the function k(x) = h(x + 2.5) 4. Circle exactly one of I, II, and III.







c. [4 points] Below is the graph of the function c(x) which is a transformation of the graph of h(x). Find a formula for c(x) in terms of h(x).



$$c(x) = h(x-1) + 2$$