You have two coupons, both usable at the Wall-E World store. One coupon is good for 20\% off any purchase, and the other is good for $40 off any purchase (as long as the price is $100 or more). Wall-E World allows these coupons to be used together. Note that the $40-off coupon gives no discount for a purchase under $100, so a $90 item with this coupon costs more than a $120 item with it. Stores can be weird like that.

1. Let \( p \) be the cost (in dollars) of an item at Wall-E World. Write an expression for a function \( C(p) \) which is the price of that item after applying the 20\%-off coupon, and also an expression for a function \( S(p) \), which is the price of an item after applying the $40-off coupon. Sketch the graphs of each of these functions for \( 0 \leq p \leq 200 \). (Be sure to label important points.)

2. Explain in words what \( C \circ S(p) \) and \( S \circ C(p) \) represent. Then sketch the graph of \( C \circ S \) and \( S \circ C \) for \( 0 \leq p \leq 200 \), remembering to label important points.