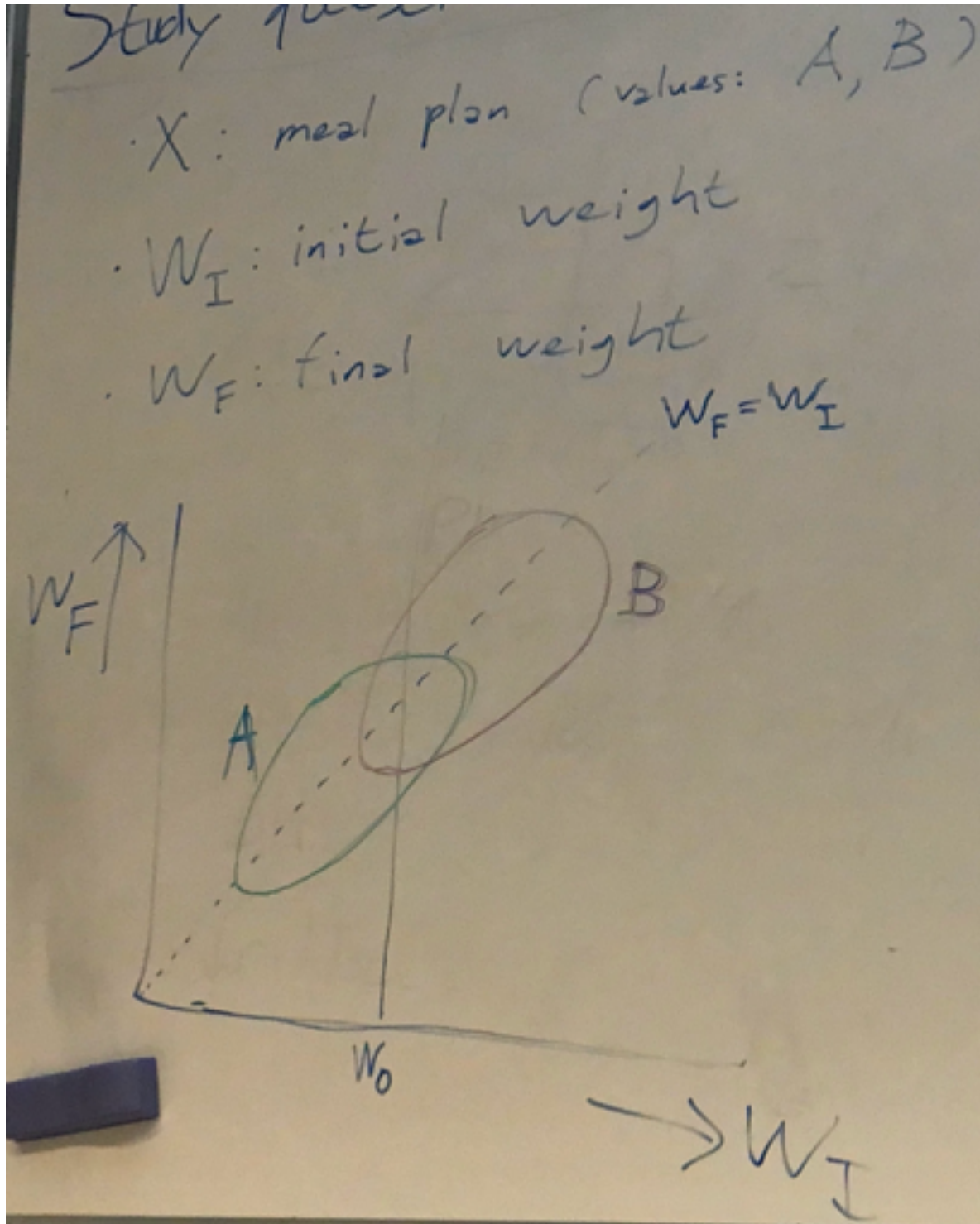
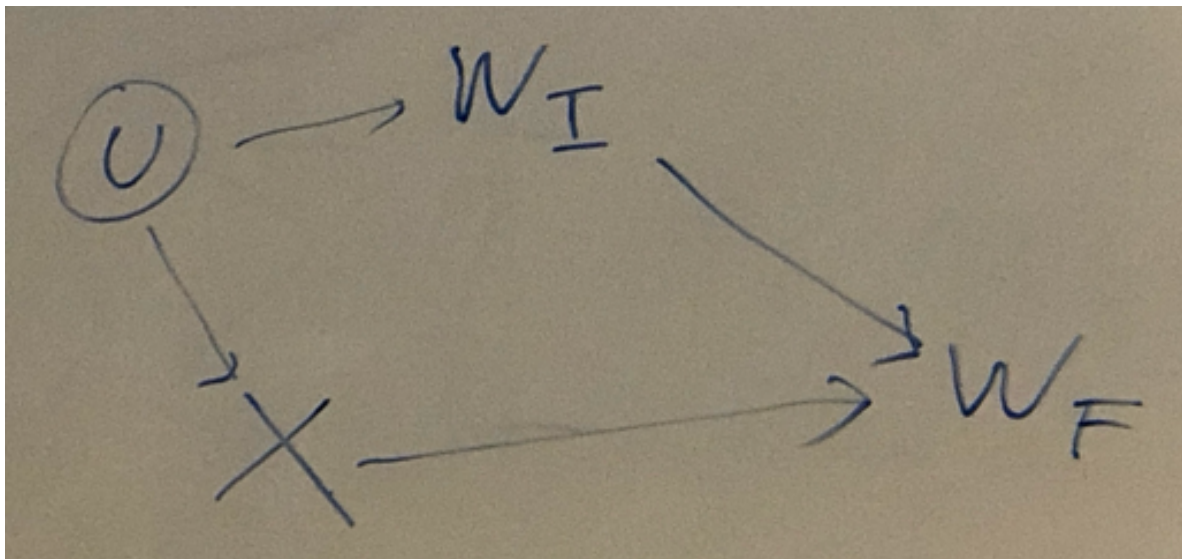


P4 Study questions

3.3.2



a) Both have a plausible story. In order to figure it out, we should do a causal graph:



b) What we want to know is the causal effect of X on W_F . We should not only look at distribution, let's check vector criterion if we need to do an adjustment:

b) Backdoor:
 adjust of W_I
 \rightarrow 2nd statistician

c) in Simpson's paradox we saw that aggregated vs segregated data having a relationship - there is probability going both ways. Here are the not opposite but there is independence between W_I and W_F . We reach the conclusion that the meal plan and the change in weight seem independent from our perspective.