P3 Study questions

3.3.2

Study qu...

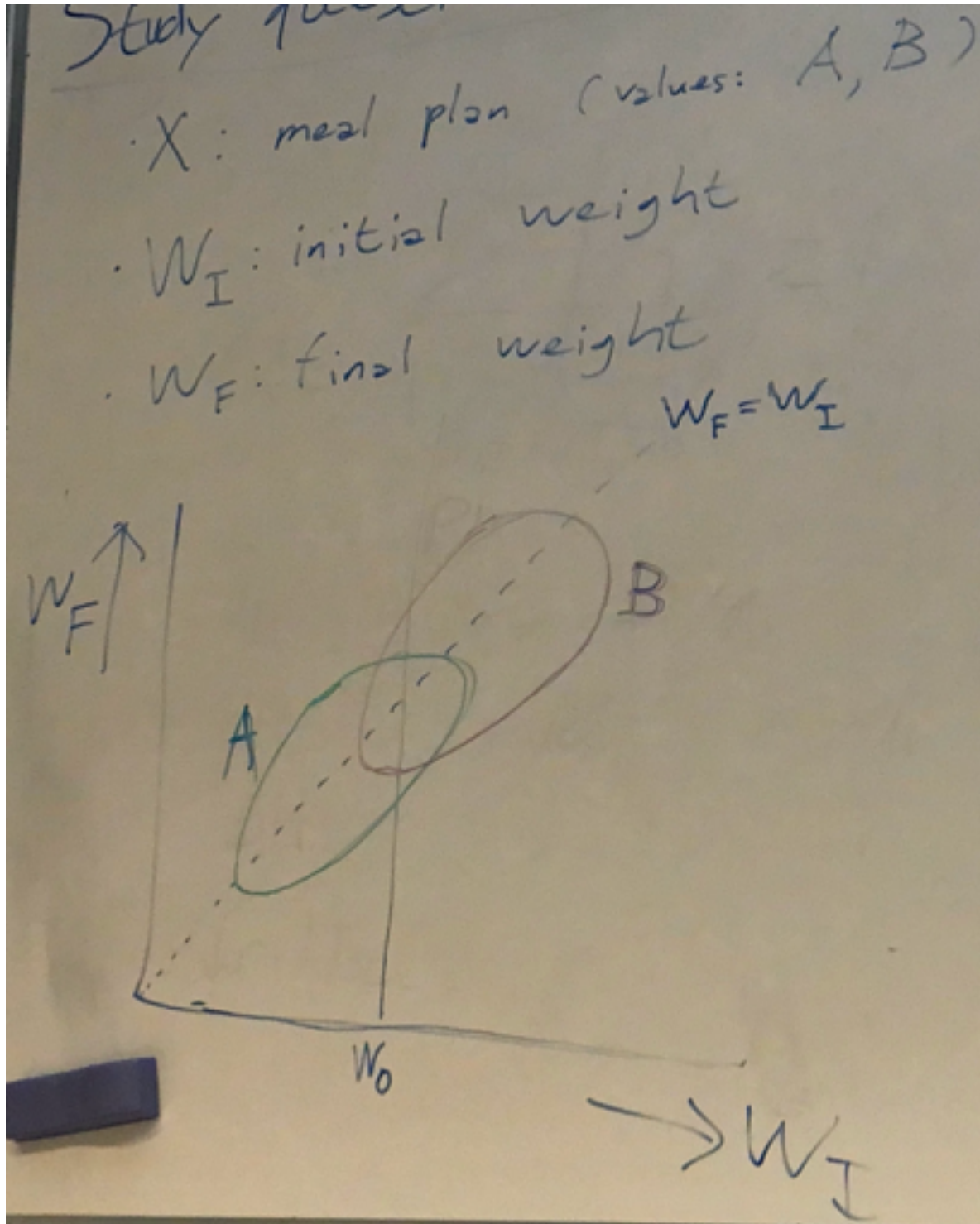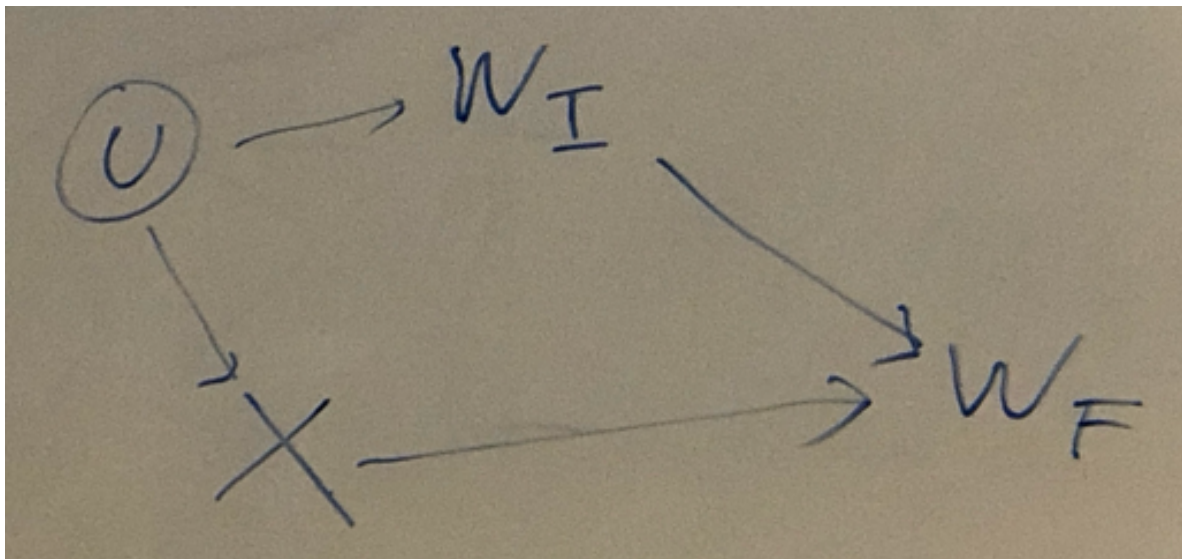- X : meal plan (values: A, B)
- W_I : initial weight
- W_F : final weight

$$W_F = W_I$$

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 Wf. We should not only look at distribution, let's check vector criterion if we need to do an adjustment:

b) Backdoor:
   adjust of $W \cdot I$

   $\longrightarrow$ 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 Wi and Wf. We reach the conclusion that the meal plan and the change in weight seem independent from our perspective.