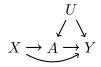
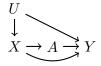
Practice with sufficient adjustment sets

$$X \xrightarrow{A} Y$$

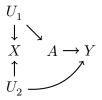
- lacksquare write down all backdoor paths between A and Y
 - recall a backdoor path has the form $A \leftarrow \text{possibly other nodes and edges} \rightarrow Y$
- suppose we condition on nothing
 - which backdoor paths are unblocked, if any?
 - is the causal effect of A on Y identified?
- suppose we condition on X
 - which backdoor paths are unblocked, if any?
 - is the causal effect of A on Y identified?



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- lacktriangle write down all backdoor paths between A and Y
 - recall a backdoor path has the form $A \leftarrow \text{possibly other nodes and edges} \rightarrow Y$
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 - which backdoor paths are unblocked, if any?
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