

Exercise: I-maps for a DGM

(Source: Koller.)

Consider the DAG G in Figure 1. Assume it is a minimal I-map for $p(A, B, C, D, E, F, X)$. Now consider marginalizing out X . Construct a new DAG G' which is a minimal I-map for $p(A, B, C, D, E, F)$. Specify (and justify) which extra edges need to be added.

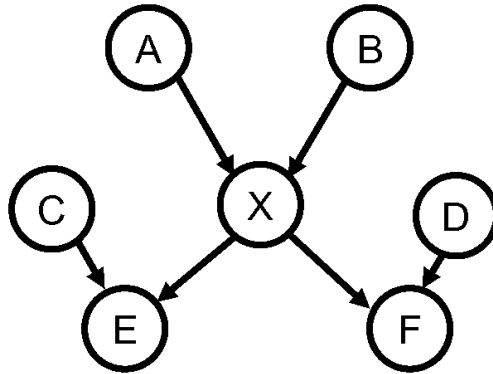


Figure 1: A DGM.