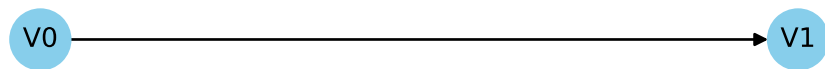
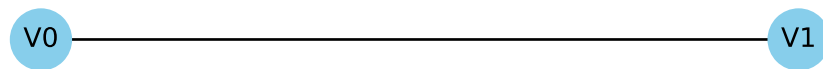


**Models with some deterministic variables**

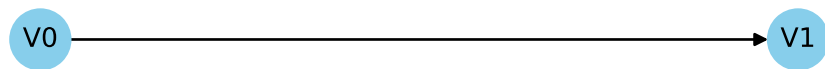
True DAG



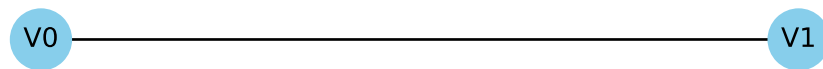
Estimated Skeleton



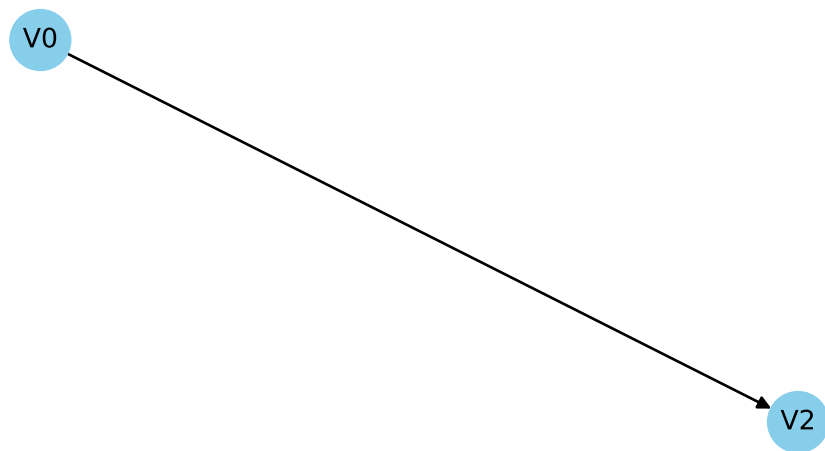
True DAG



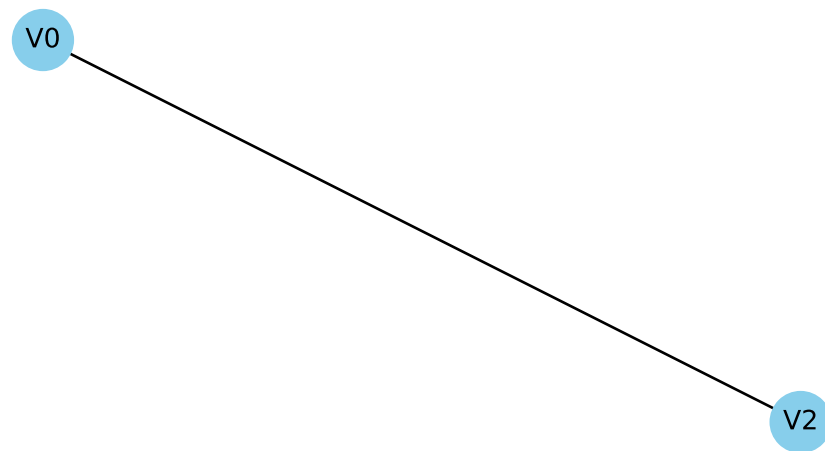
Estimated Skeleton



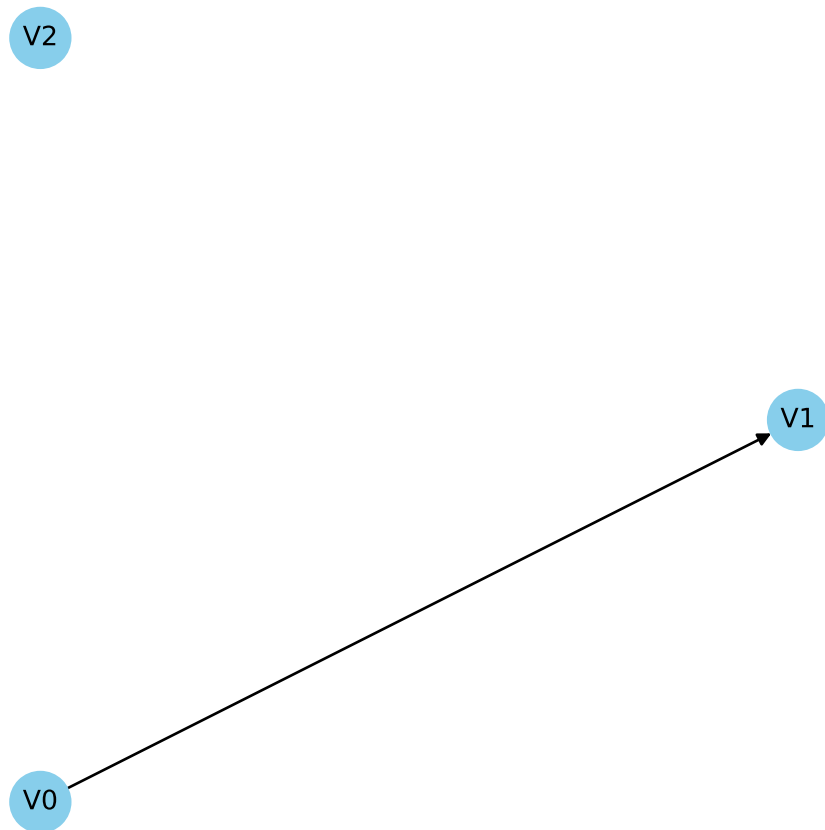
True DAG



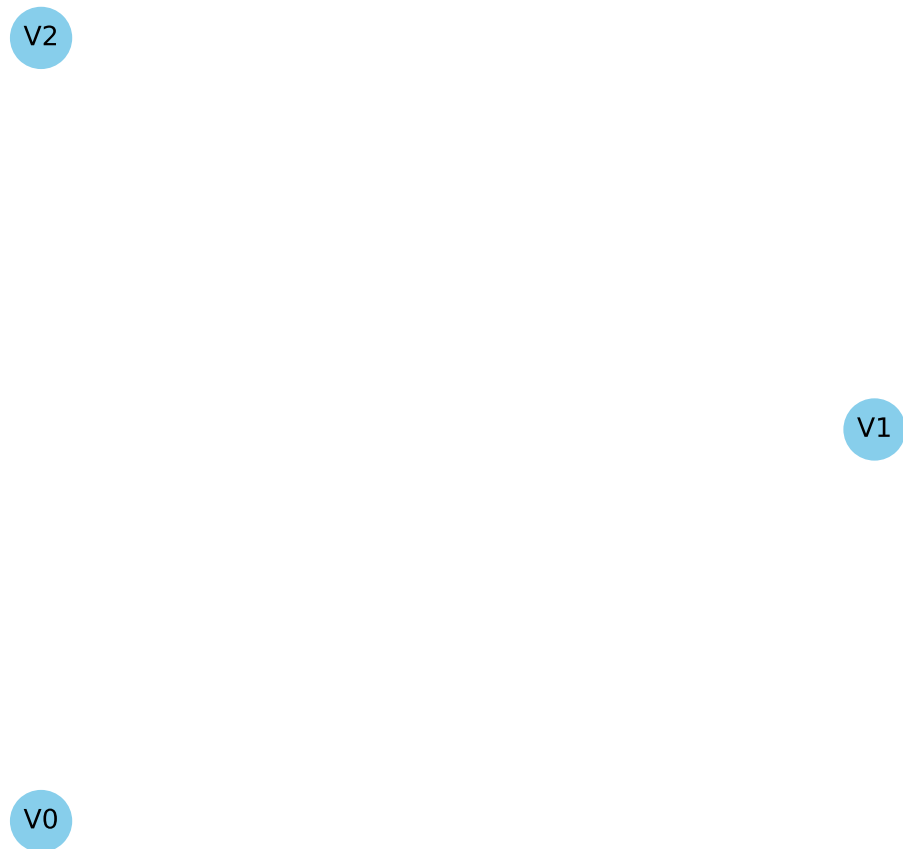
Estimated Skeleton



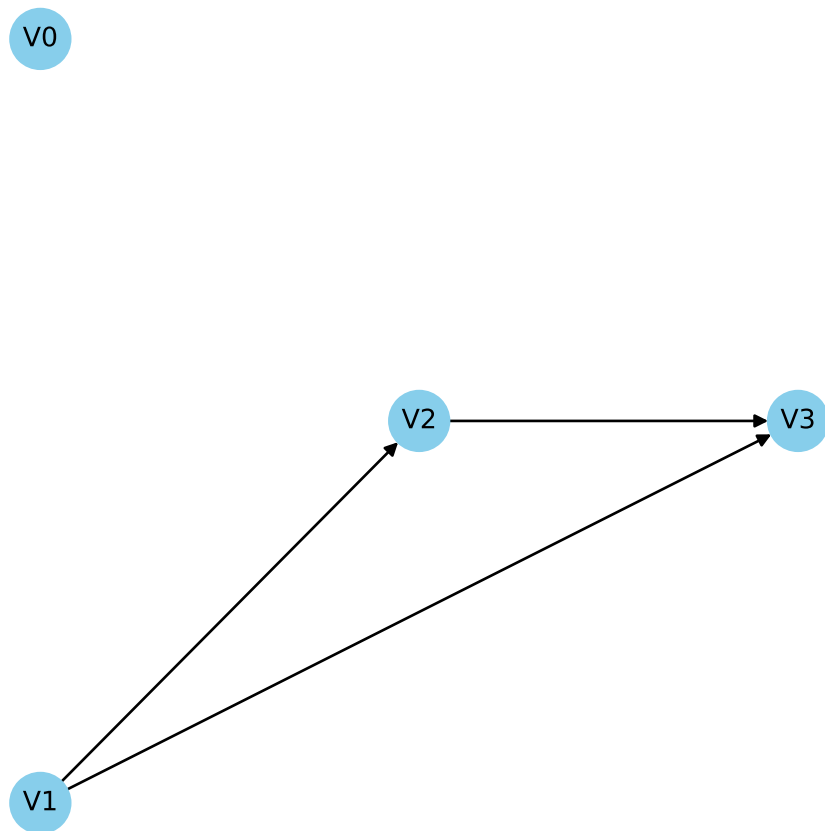
True DAG



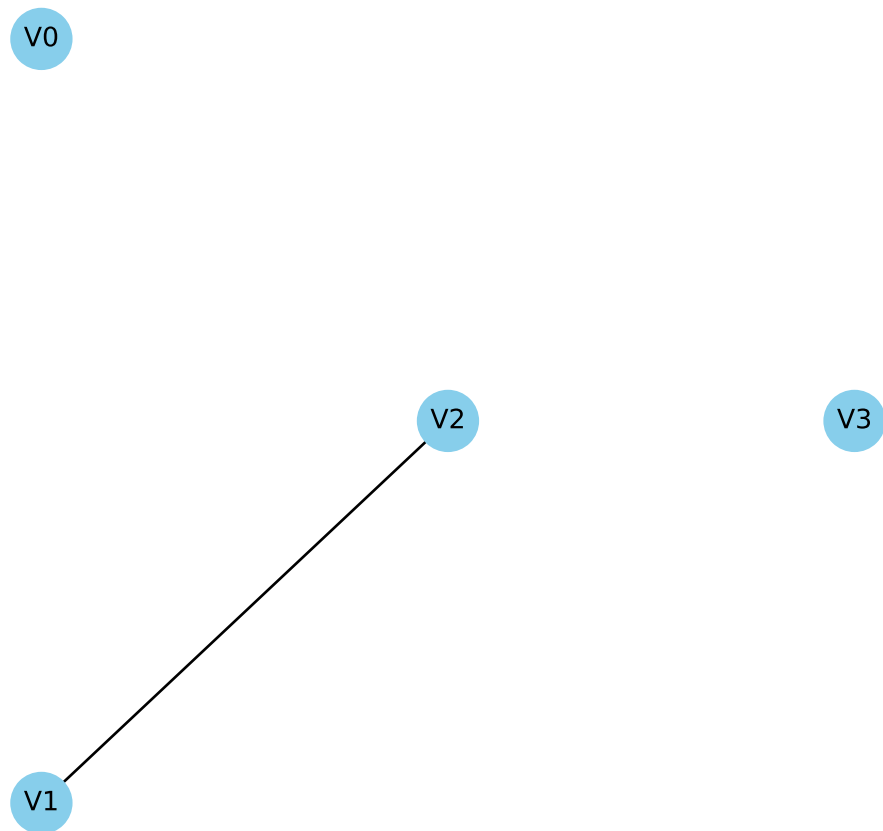
Estimated Skeleton



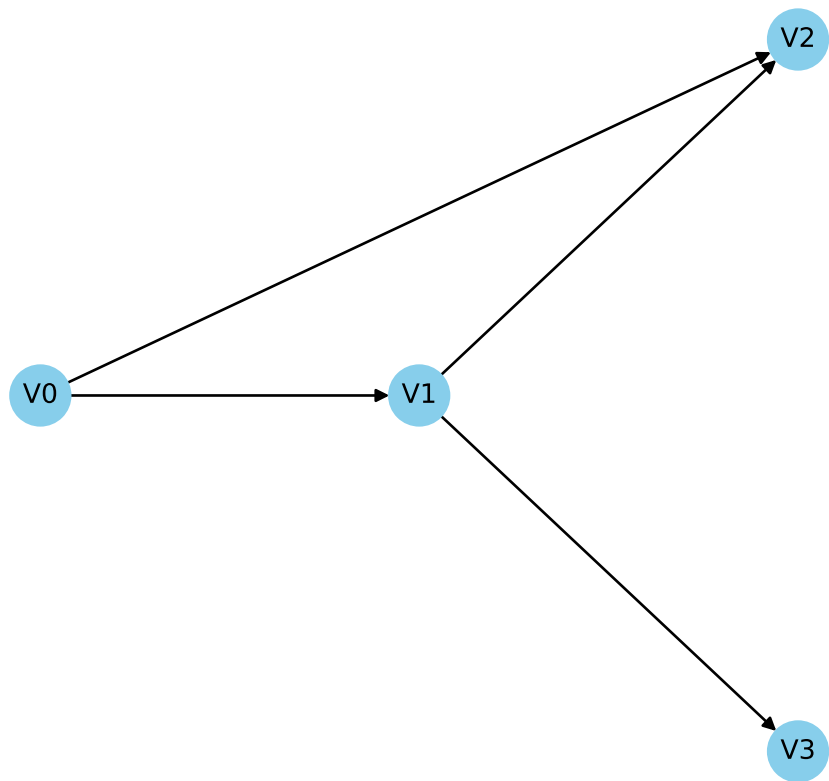
True DAG



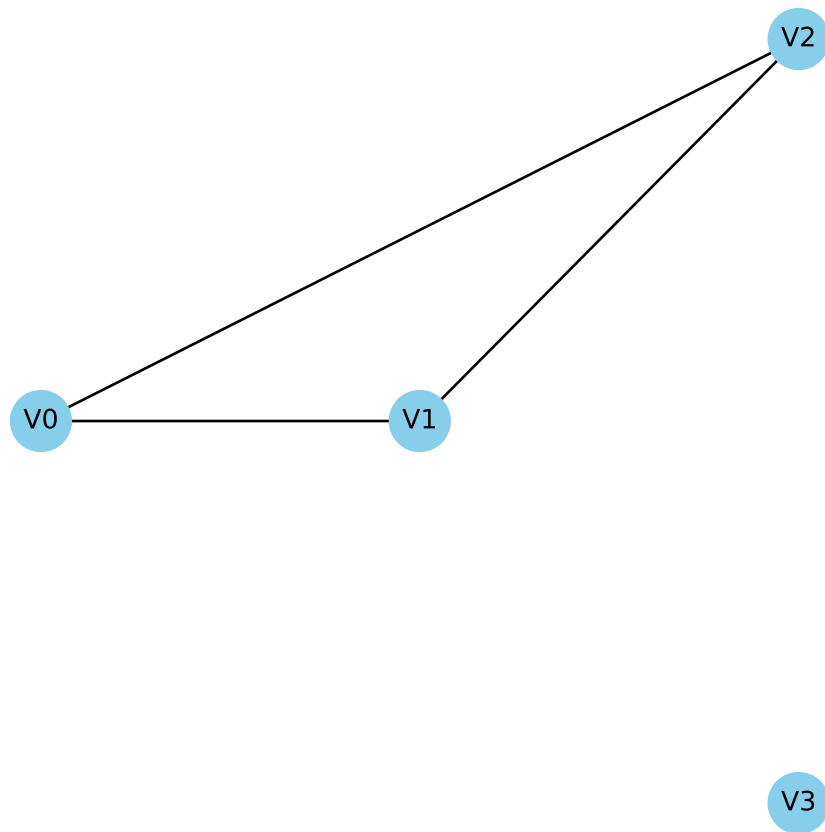
Estimated Skeleton



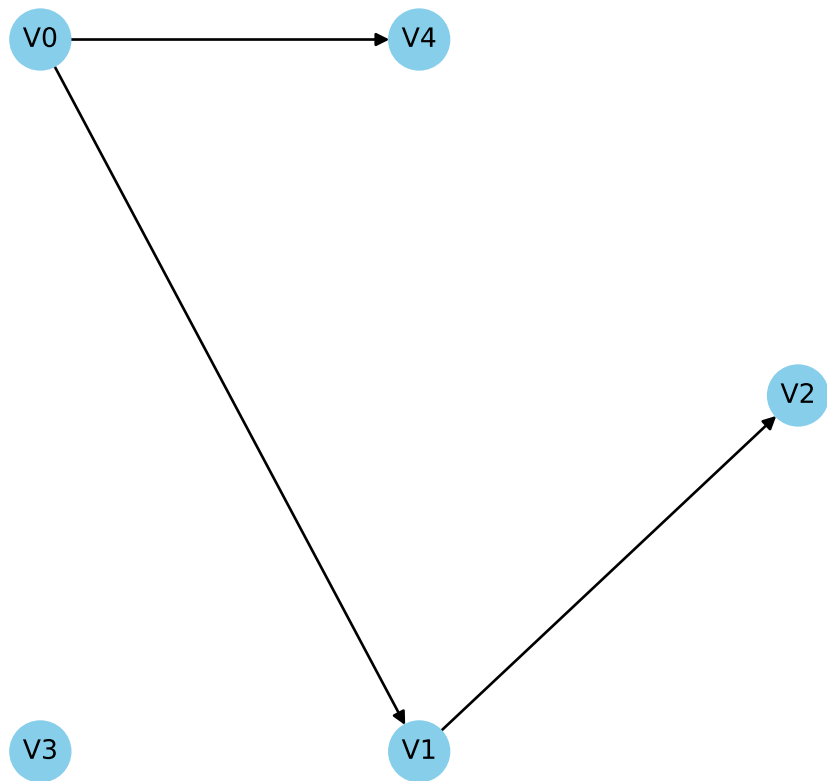
True DAG



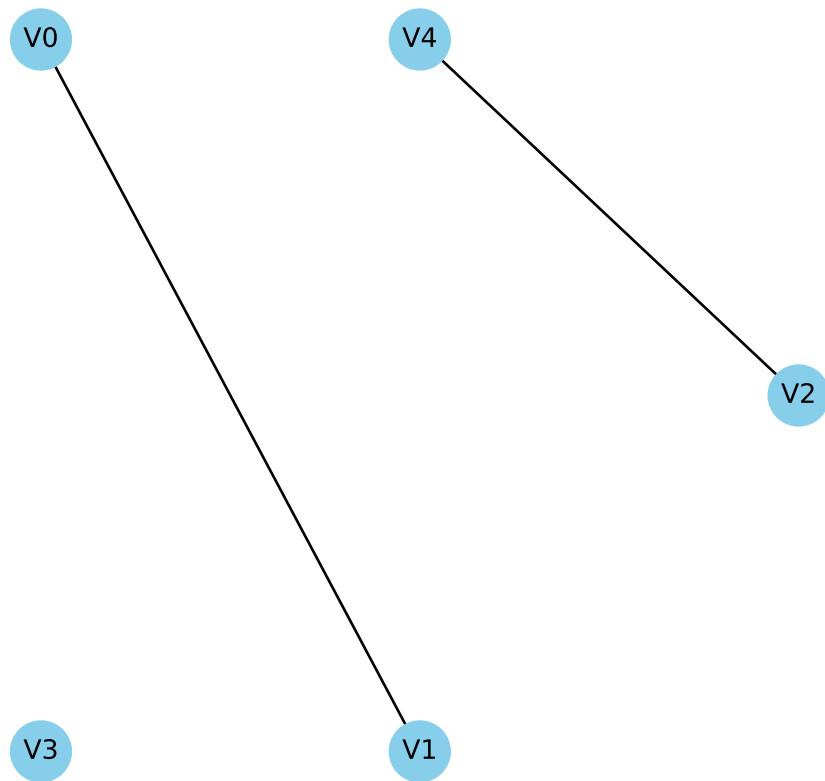
Estimated Skeleton



True DAG

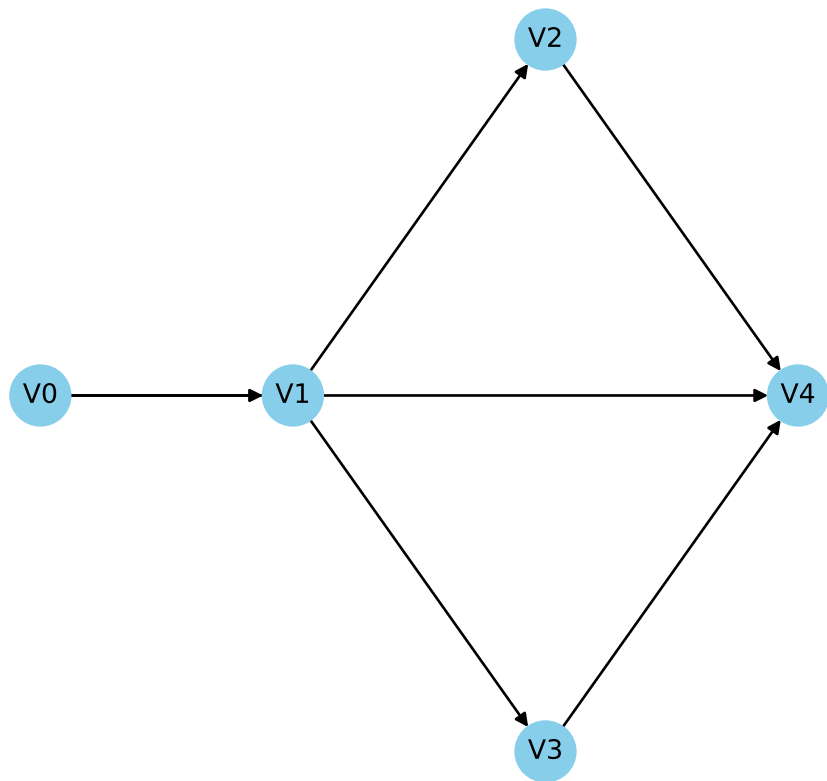


Estimated Skeleton

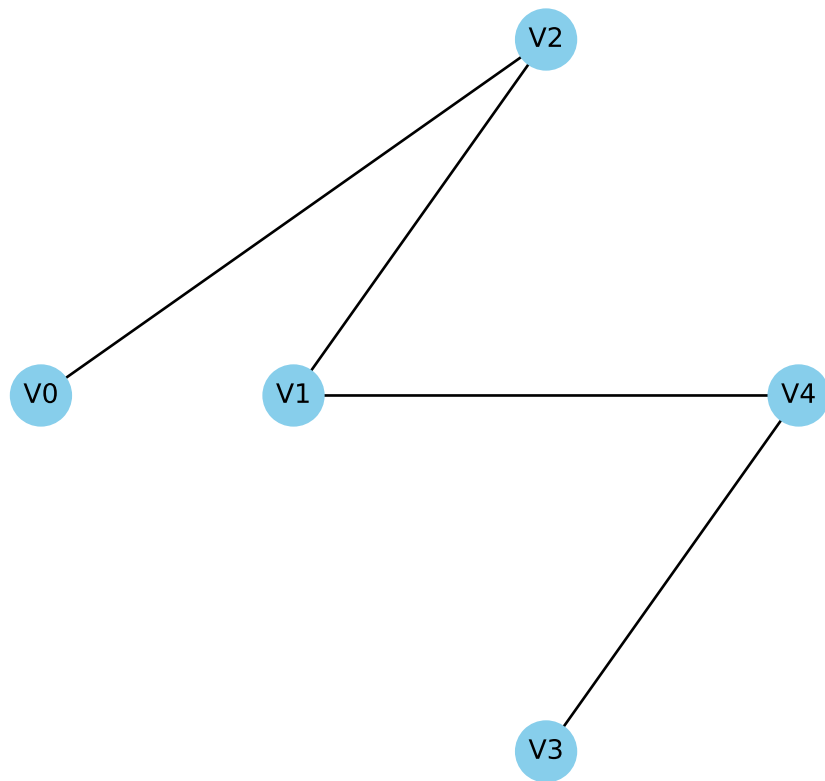




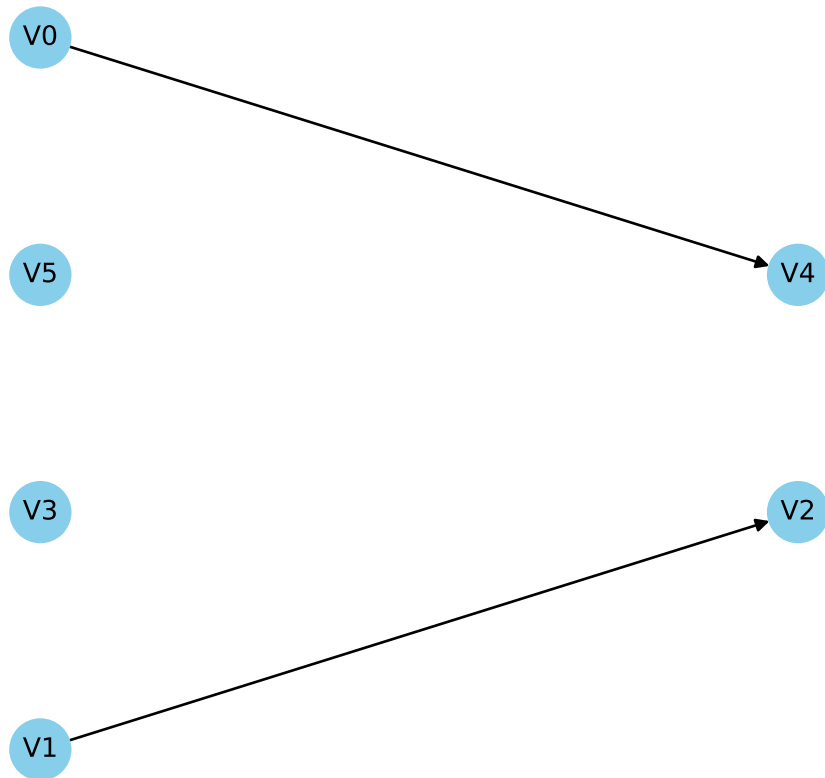
True DAG



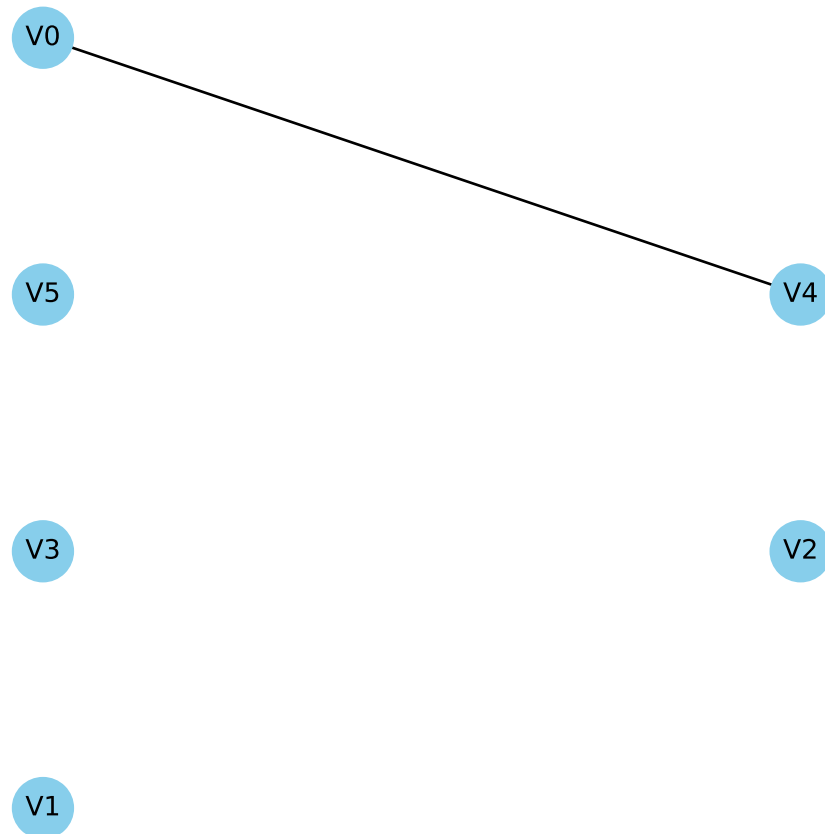
Estimated Skeleton



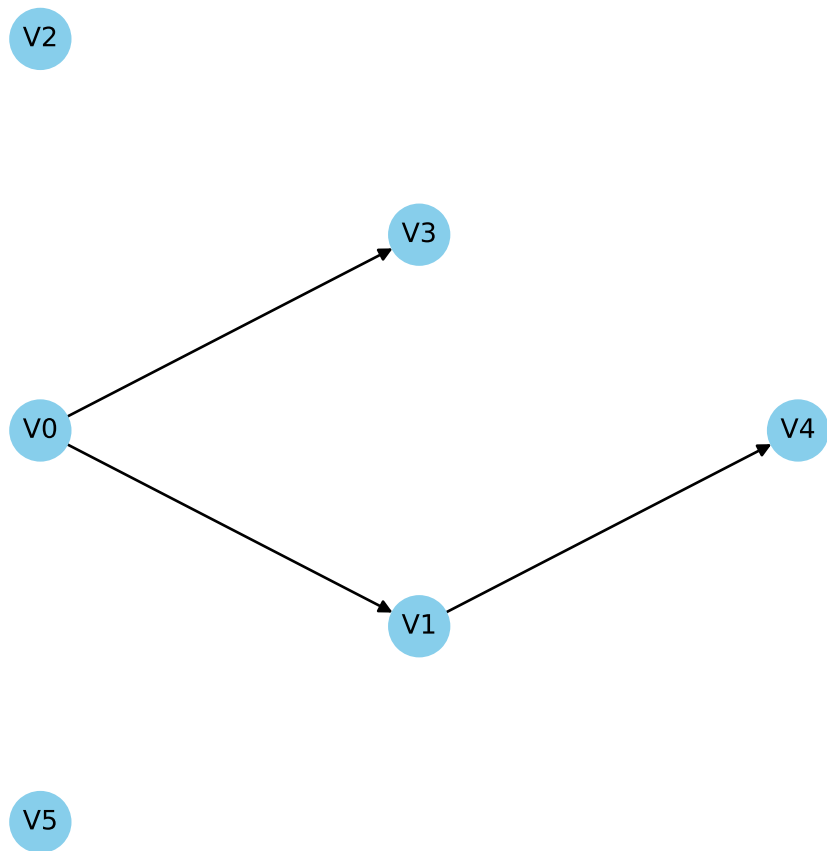
True DAG



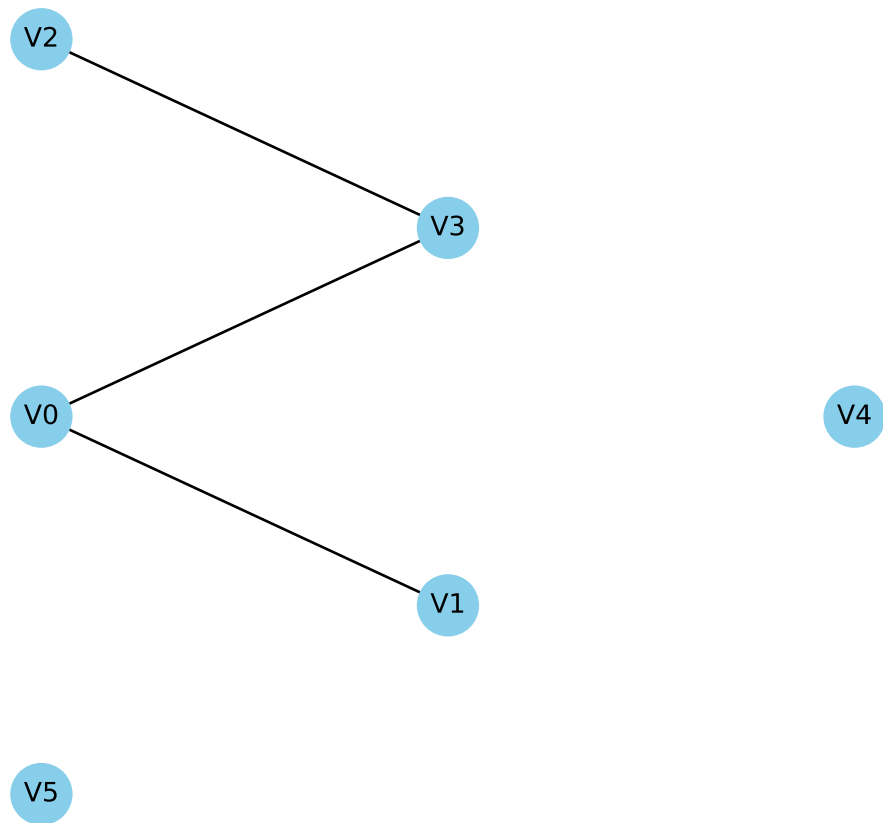
Estimated Skeleton



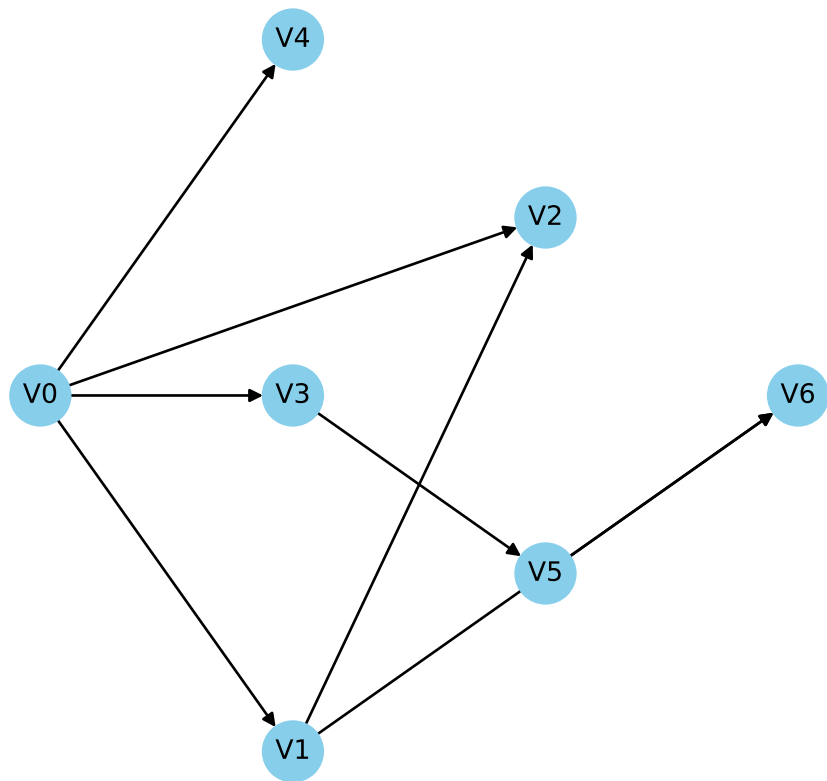
True DAG



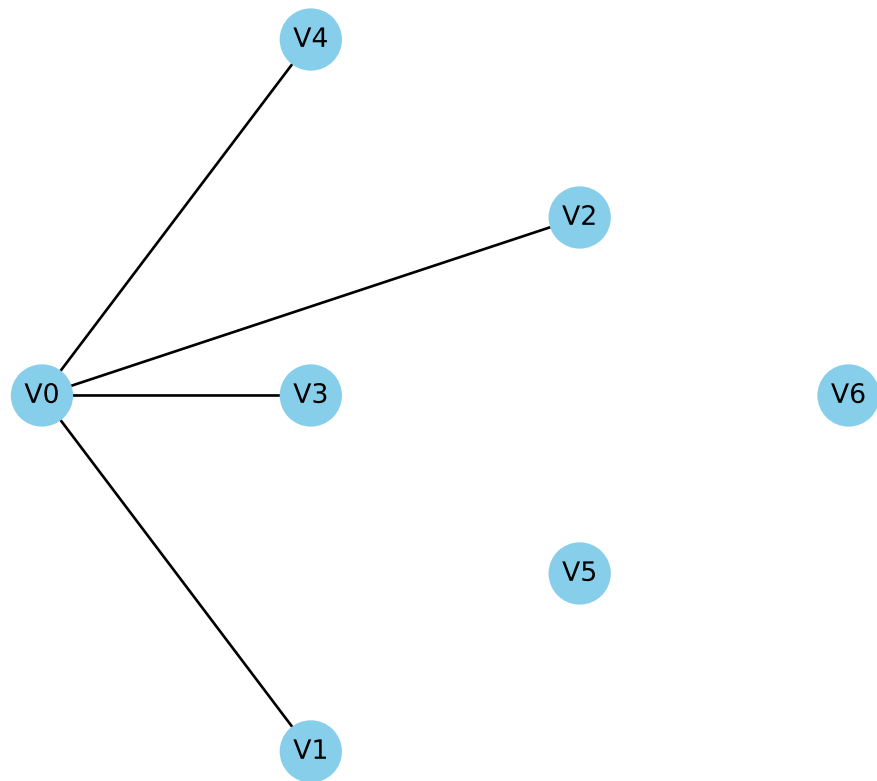
Estimated Skeleton



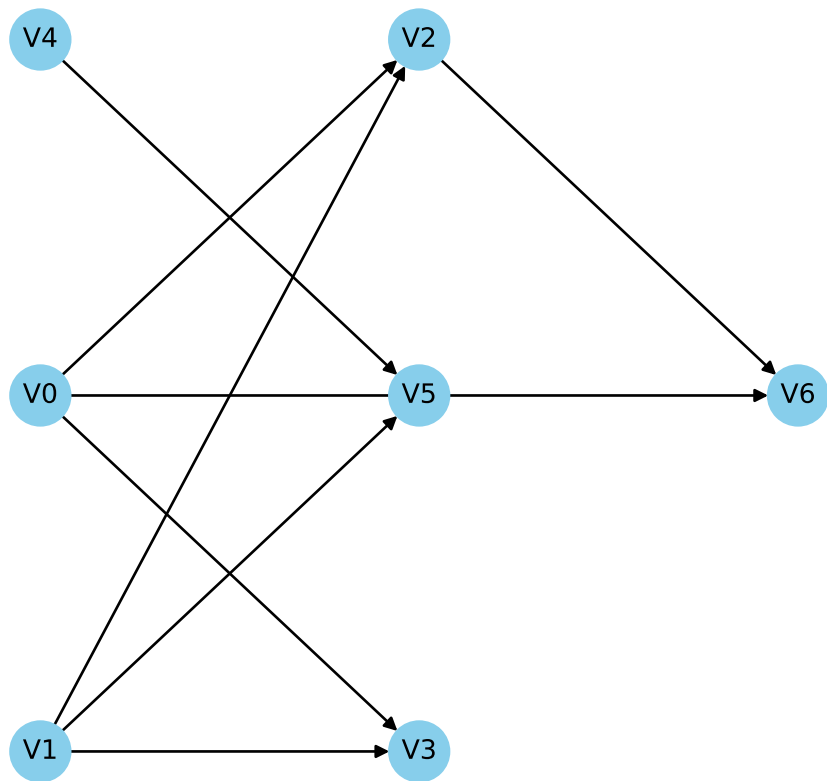
True DAG



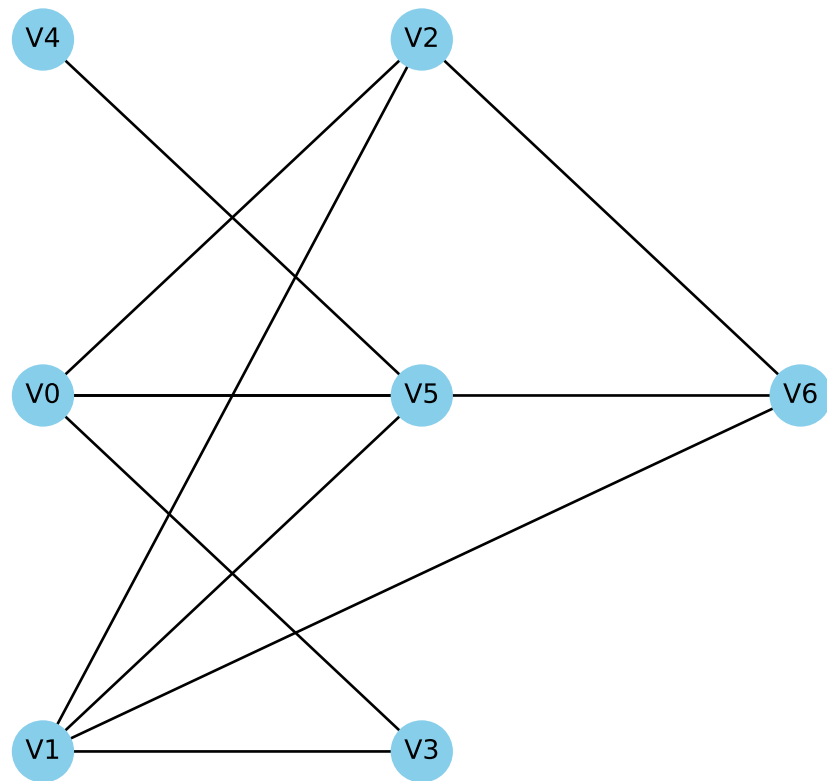
Estimated Skeleton



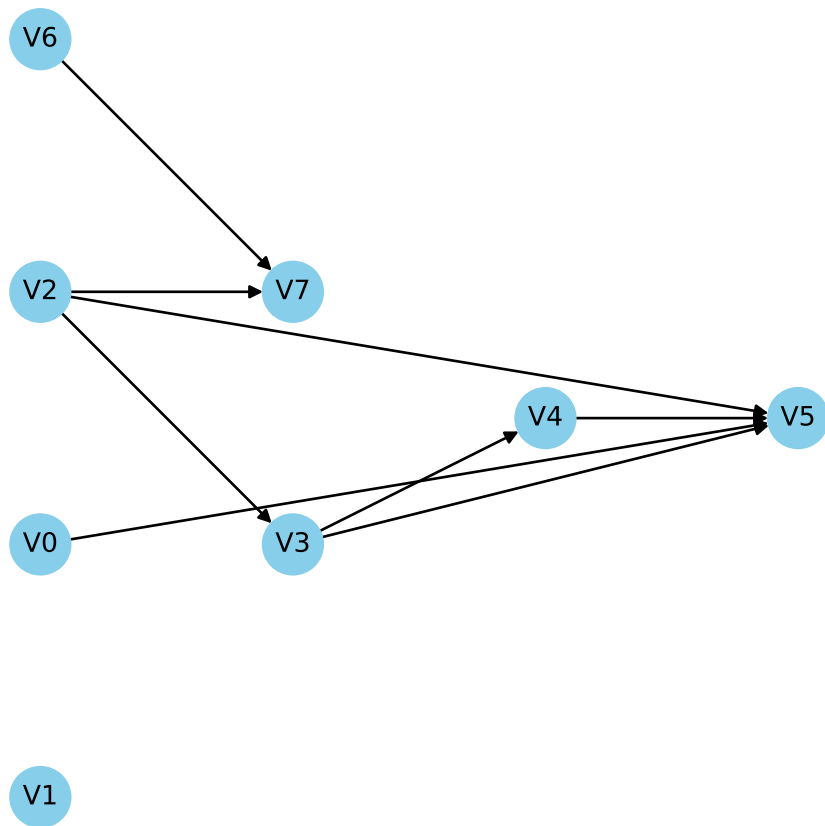
True DAG



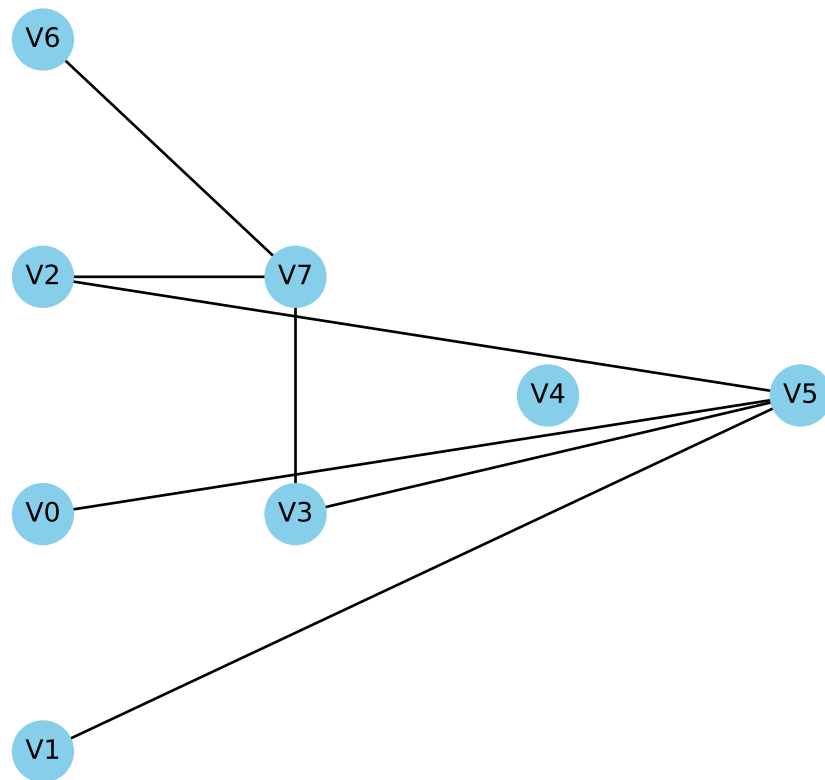
Estimated Skeleton



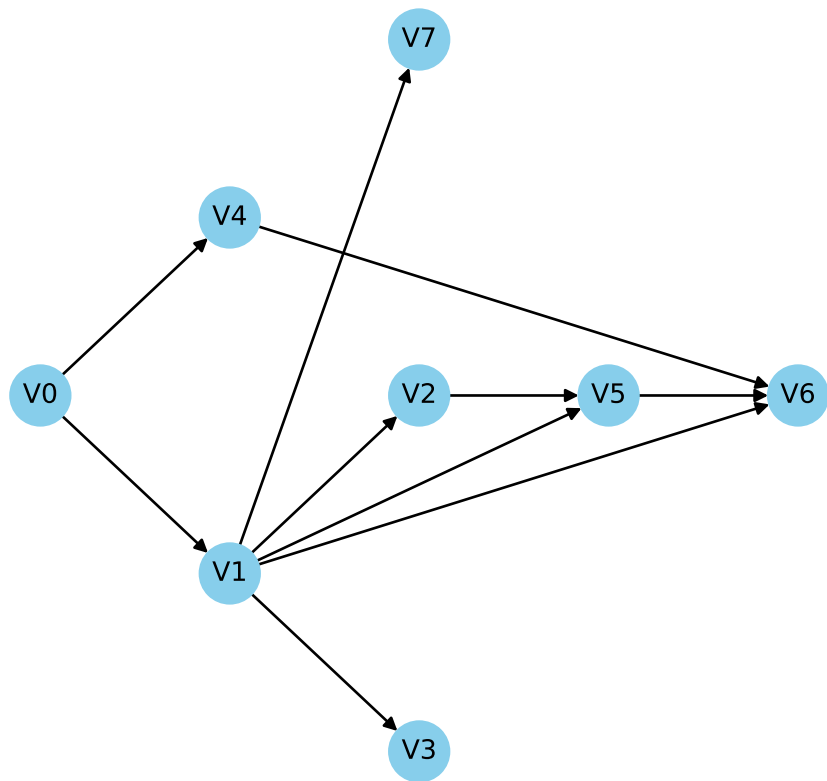
True DAG



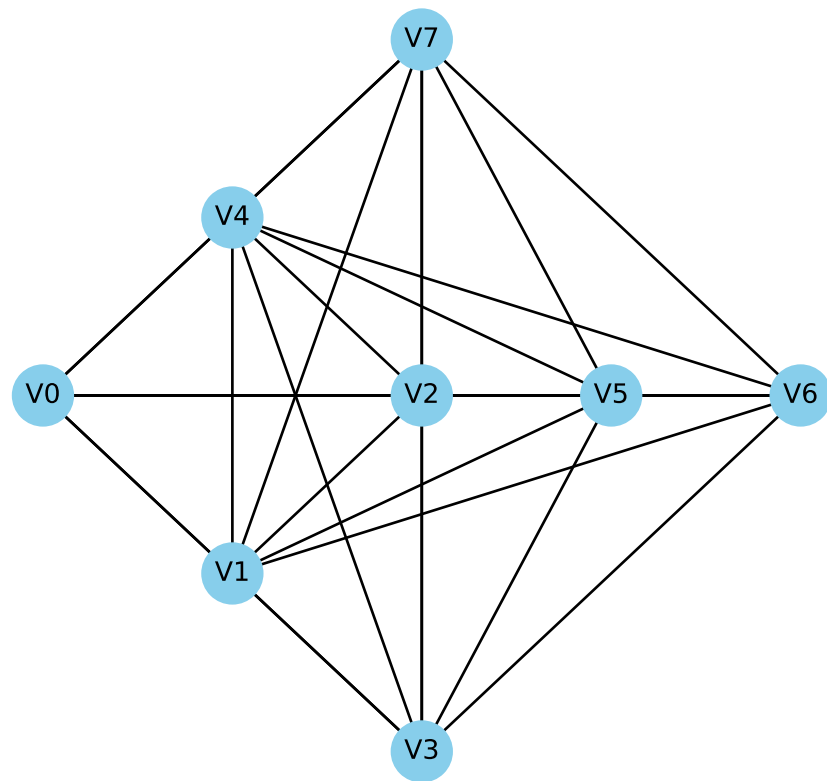
Estimated Skeleton



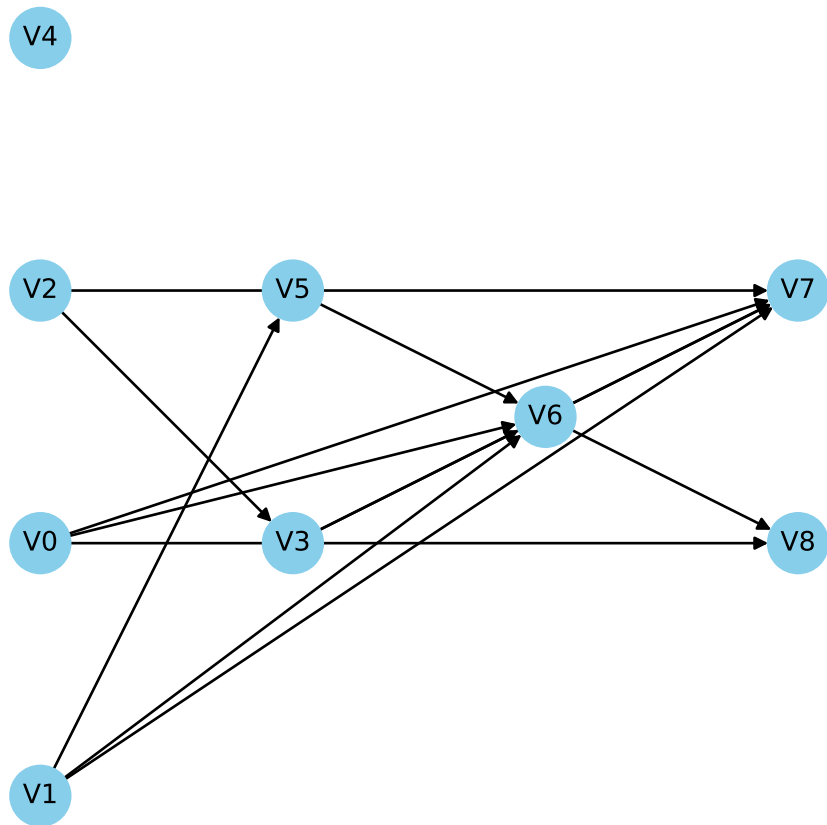
True DAG



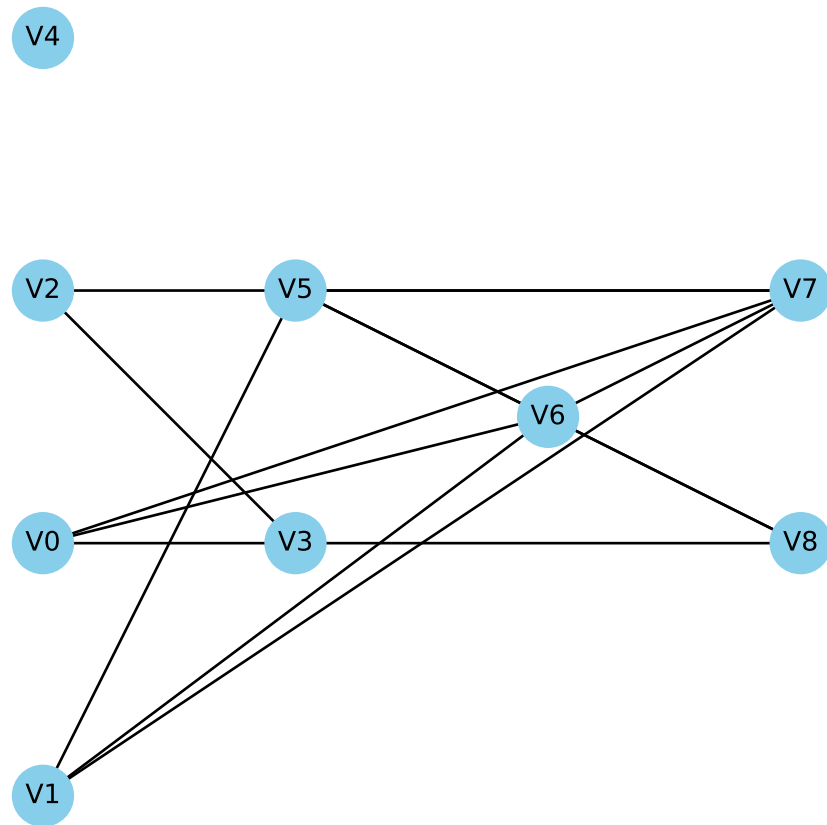
Estimated Skeleton



True DAG

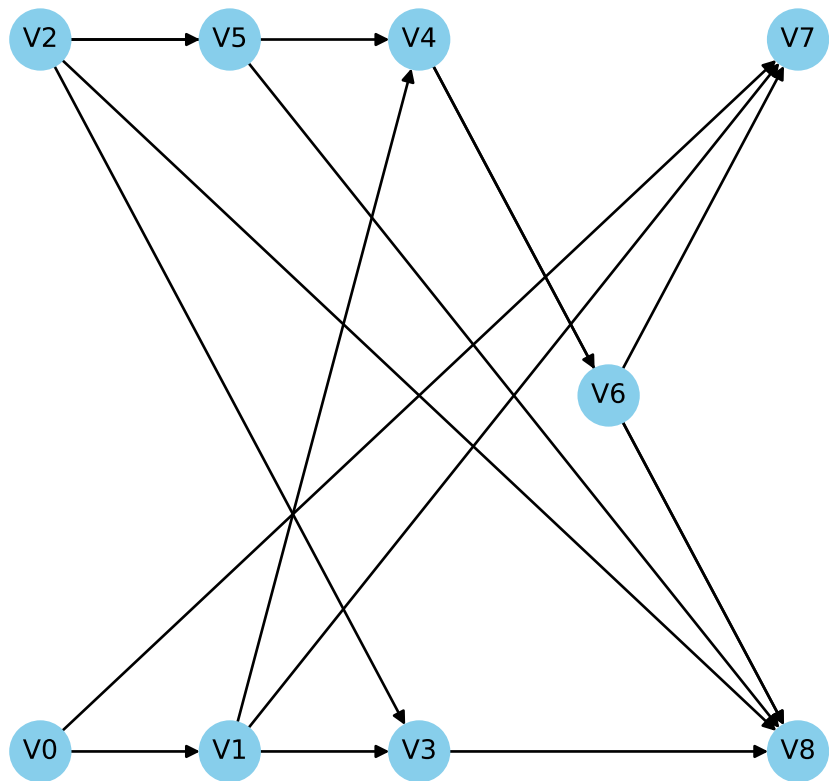


Estimated Skeleton

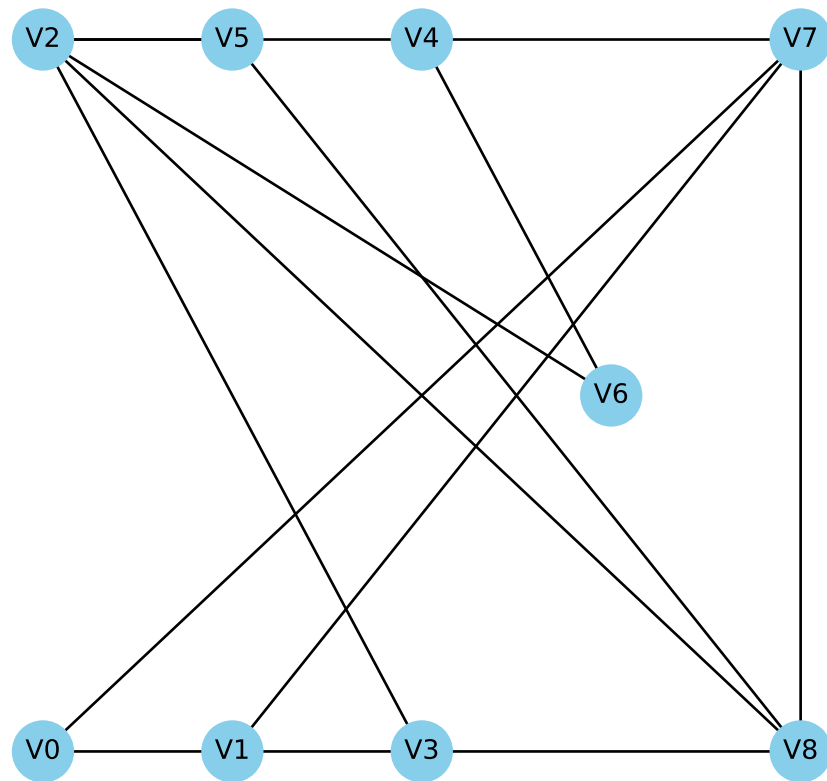




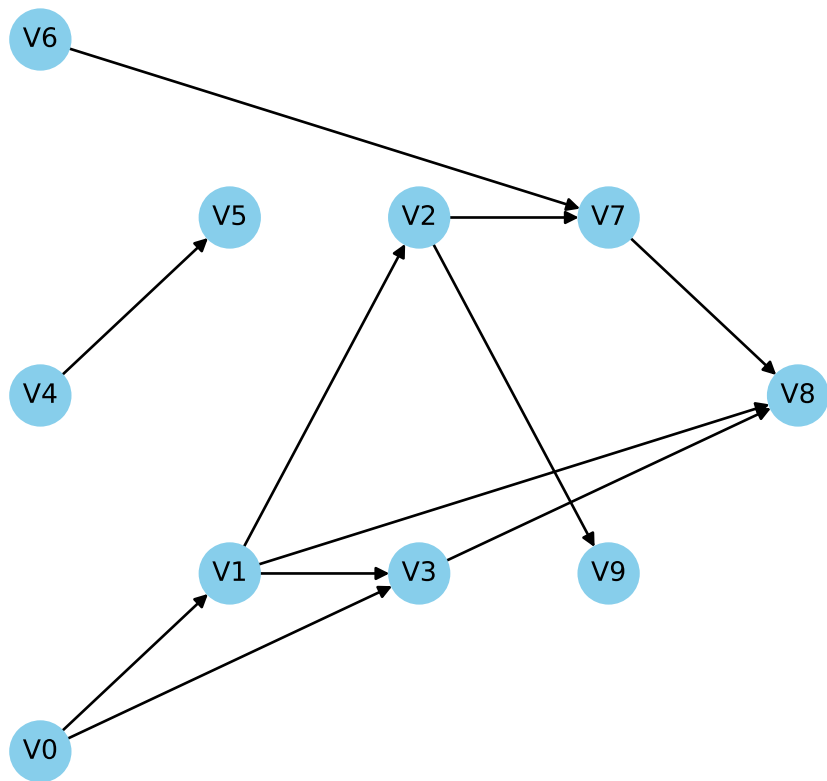
True DAG



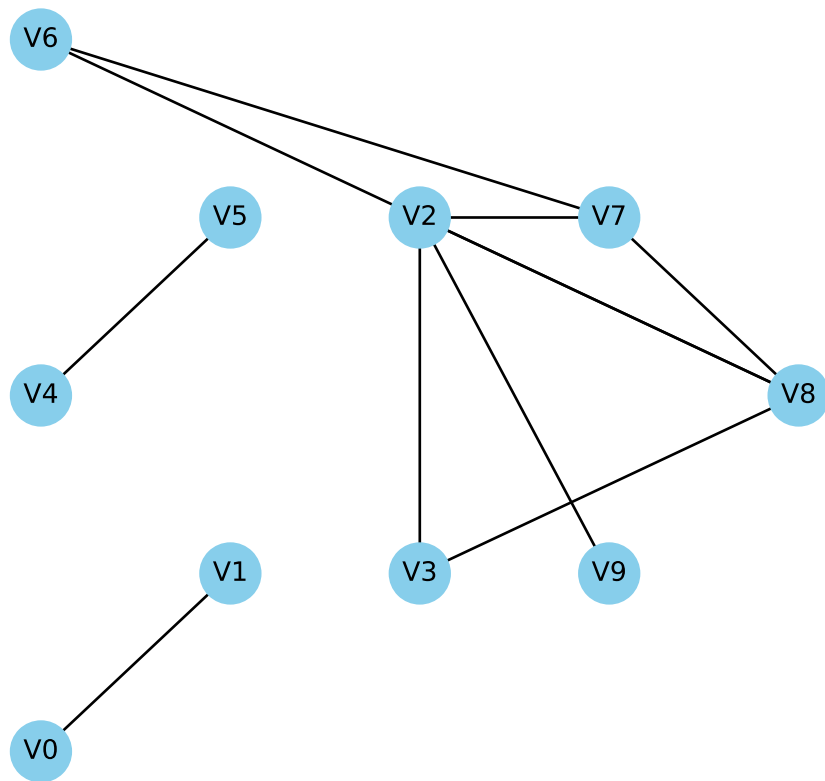
Estimated Skeleton



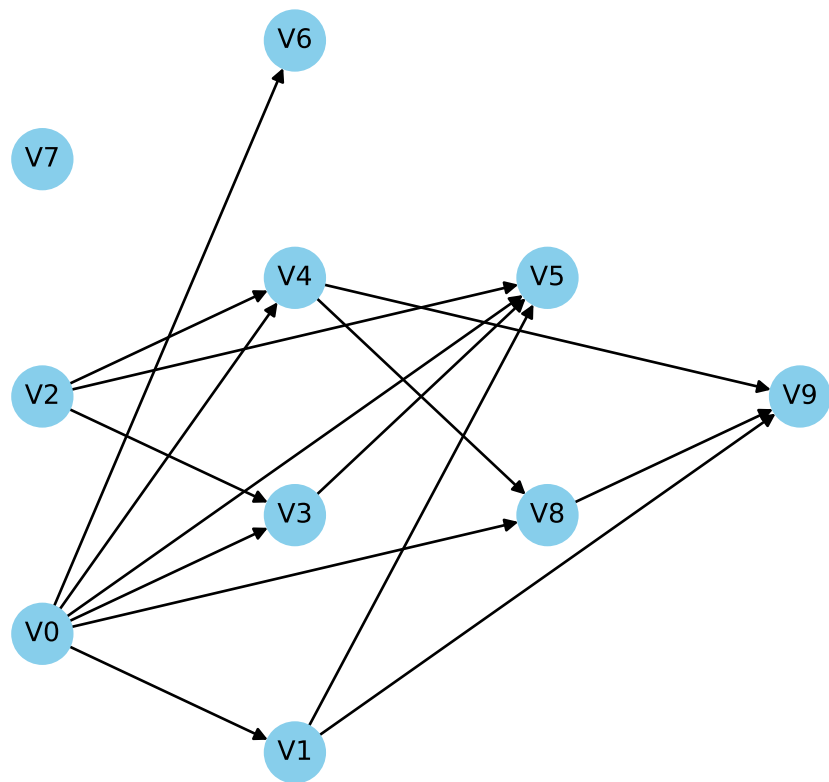
True DAG



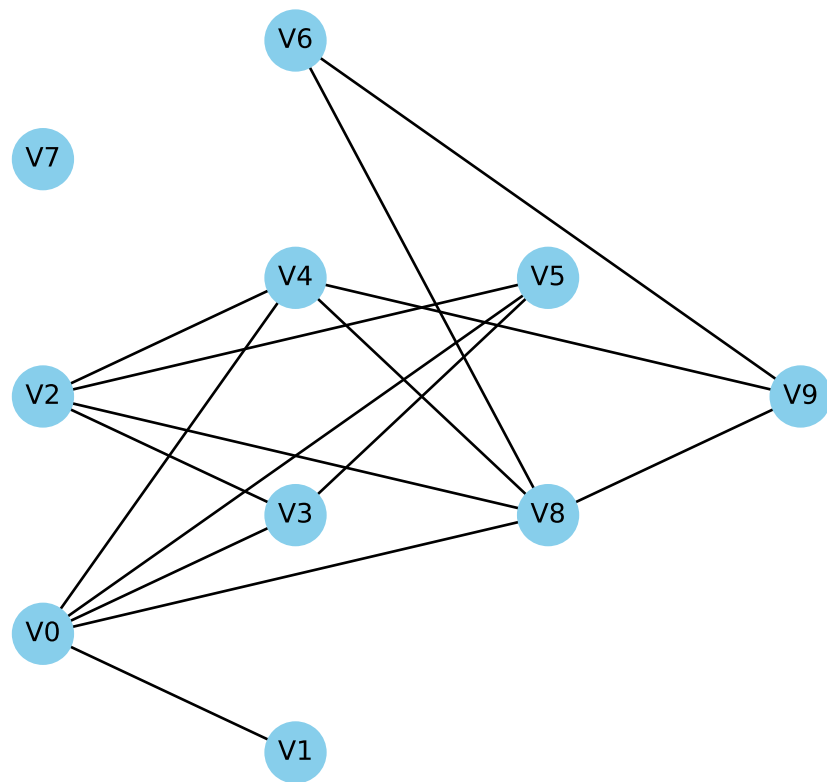
Estimated Skeleton



True DAG



Estimated Skeleton



**Models with only non-deterministic variables**

True DAG



Estimated Skeleton



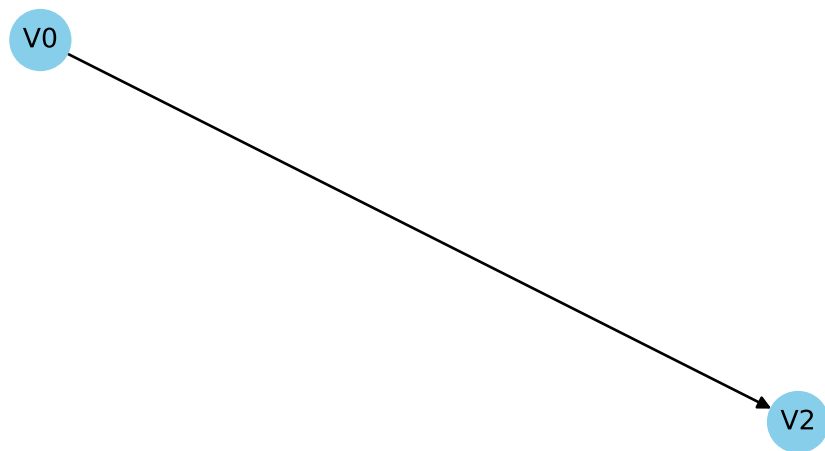
True DAG



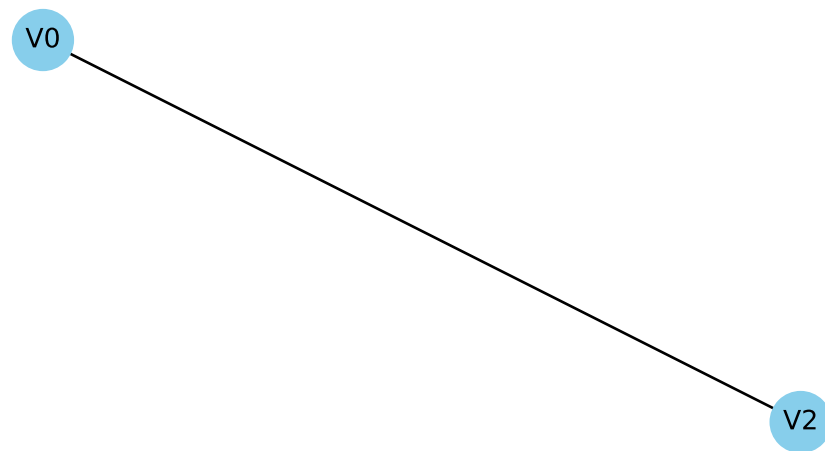
Estimated Skeleton



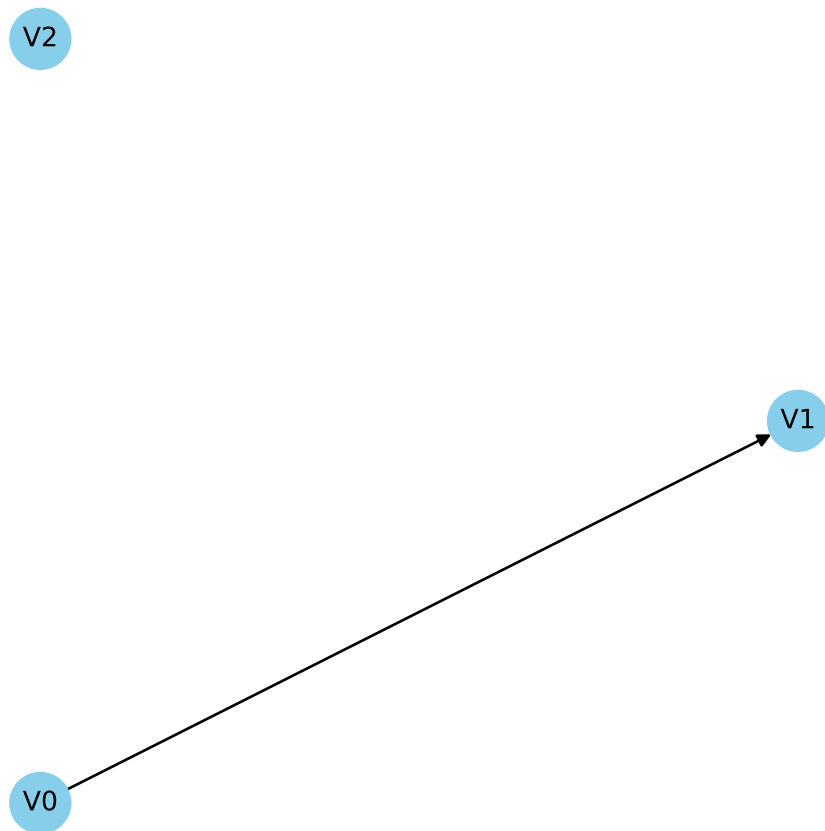
True DAG



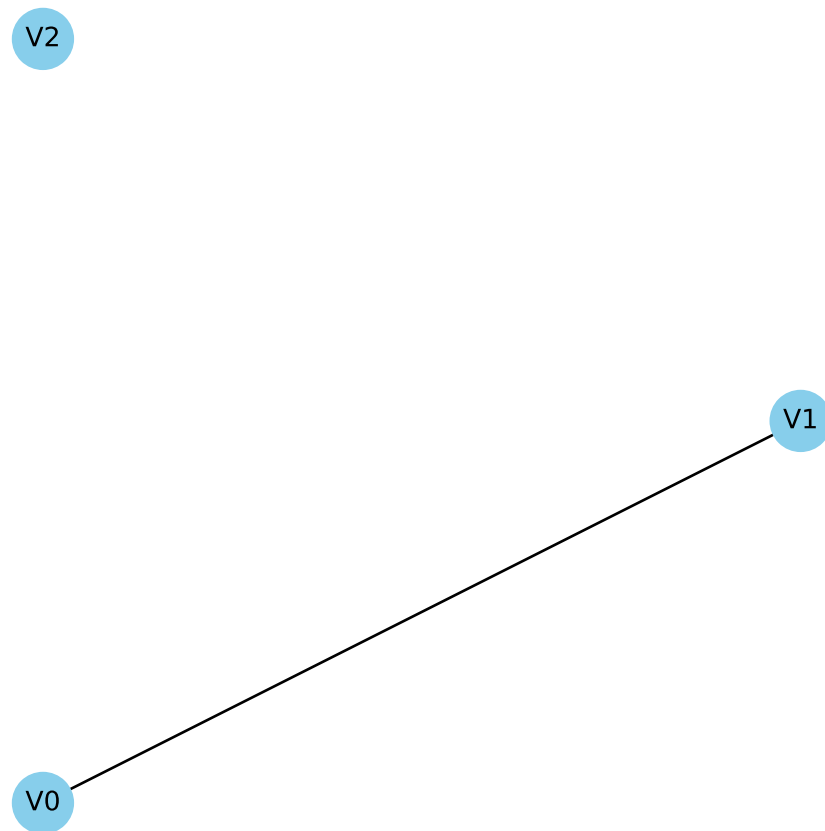
Estimated Skeleton



True DAG

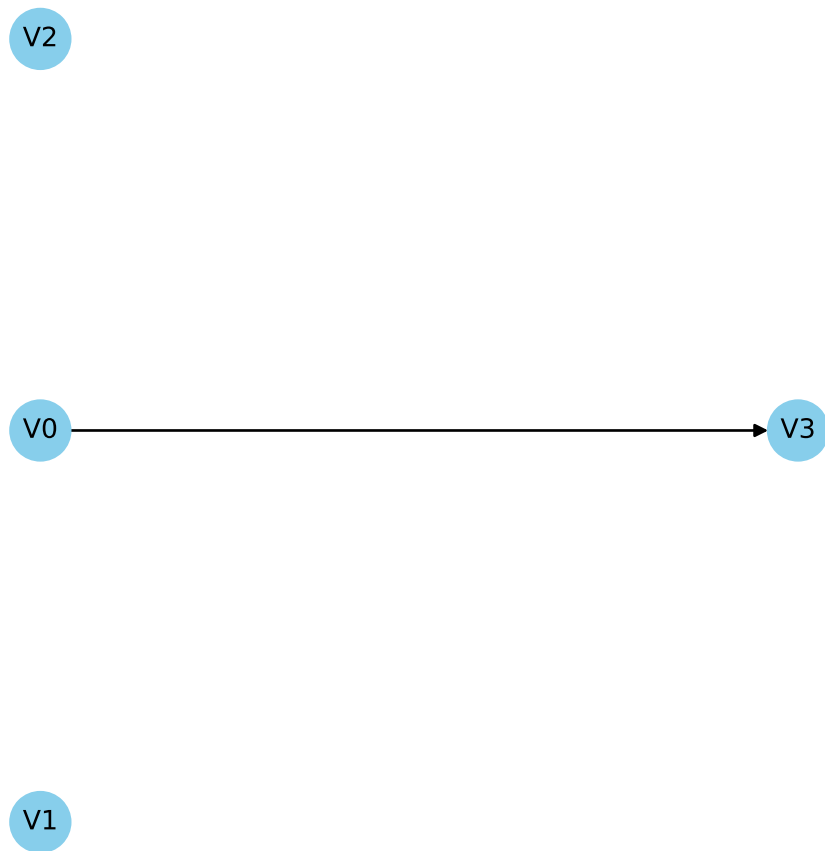


Estimated Skeleton

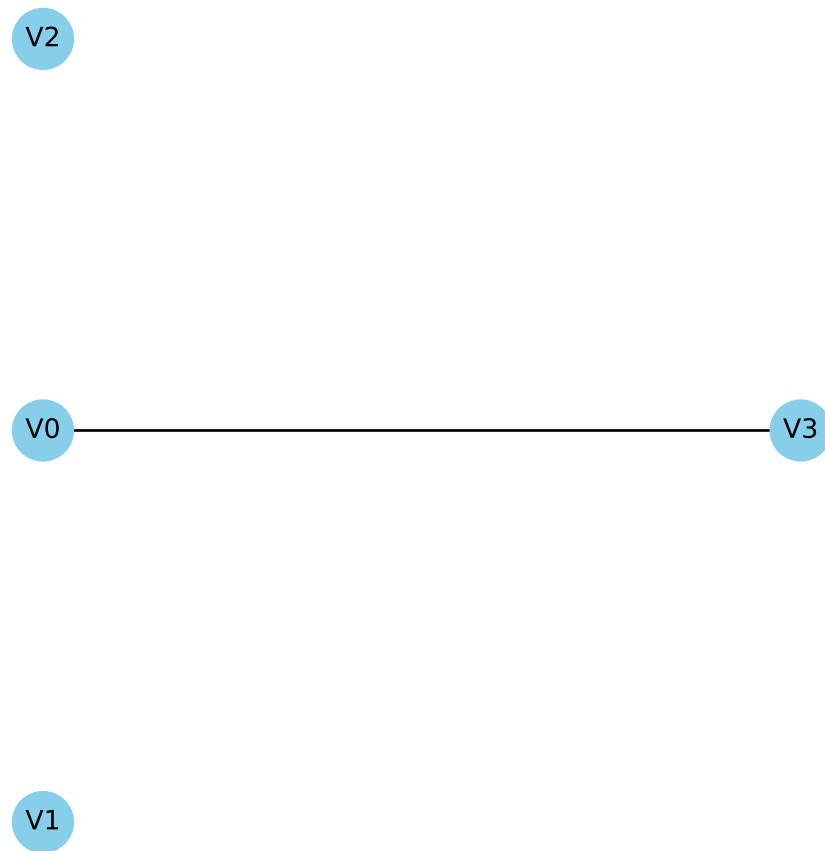




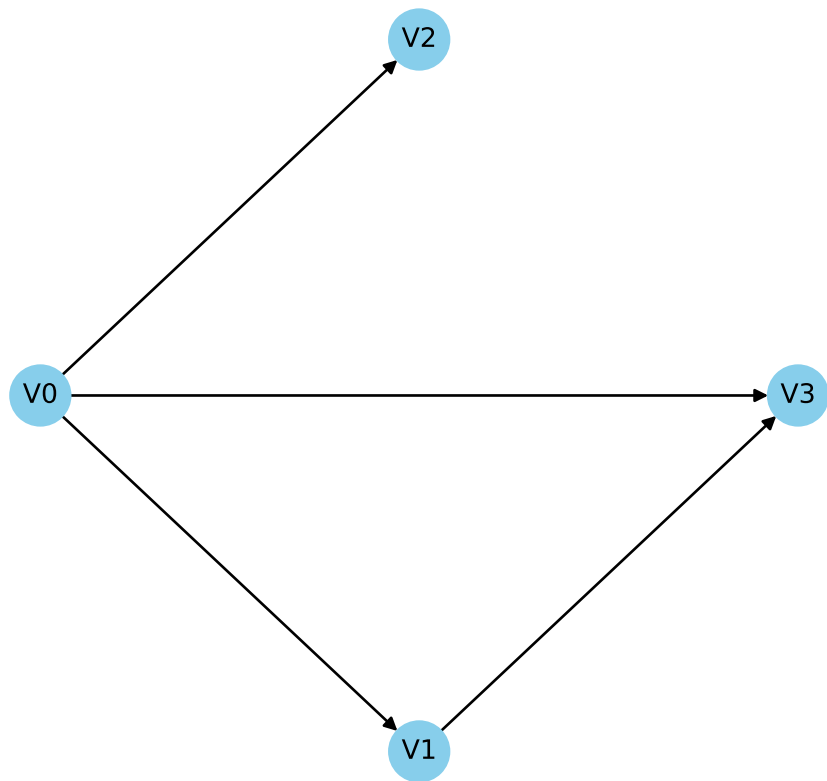
True DAG



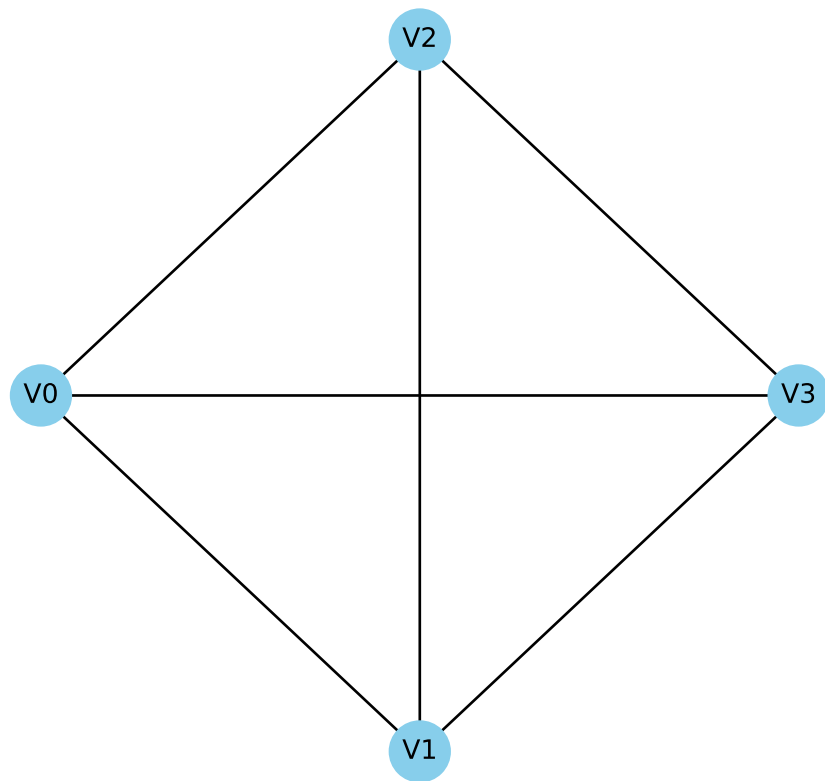
Estimated Skeleton



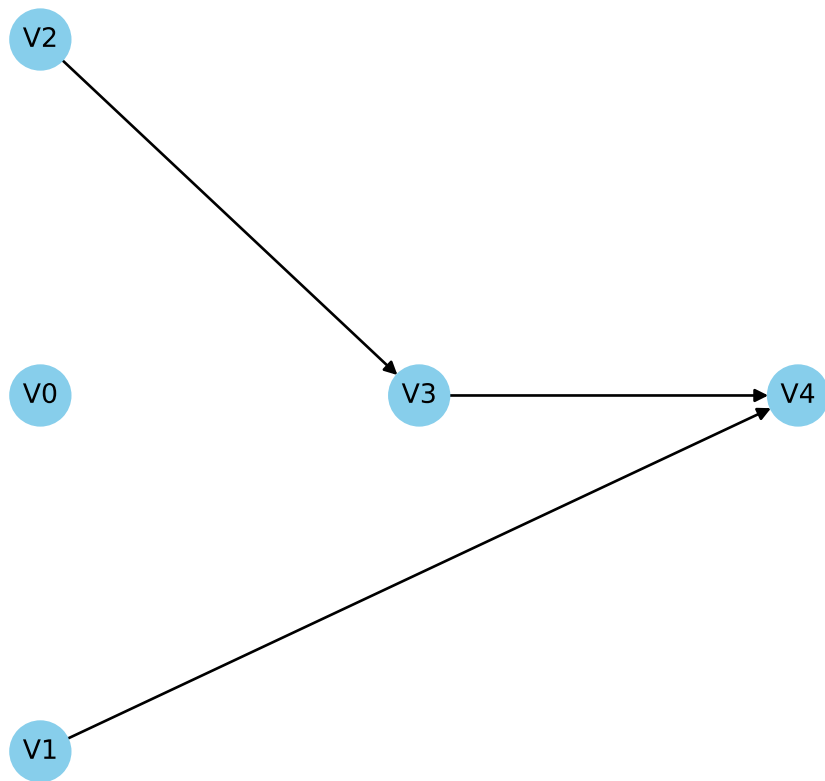
True DAG



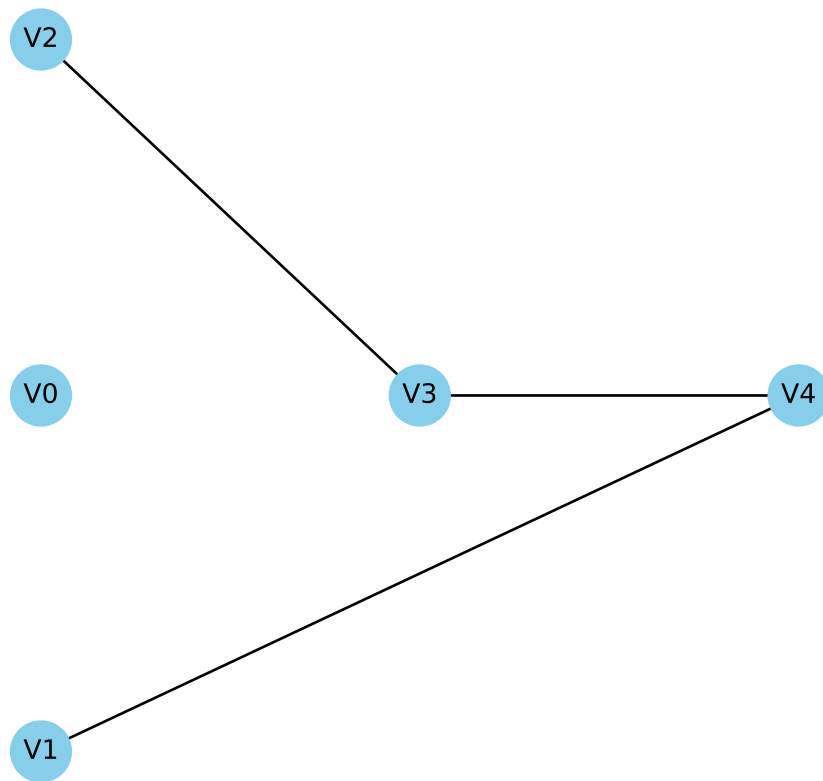
Estimated Skeleton



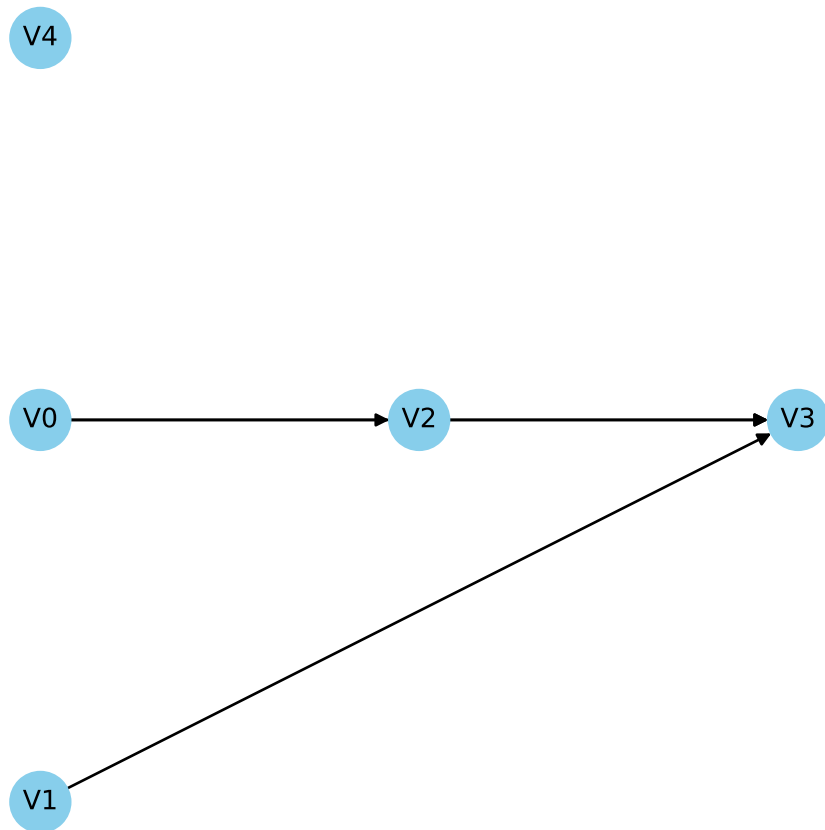
True DAG



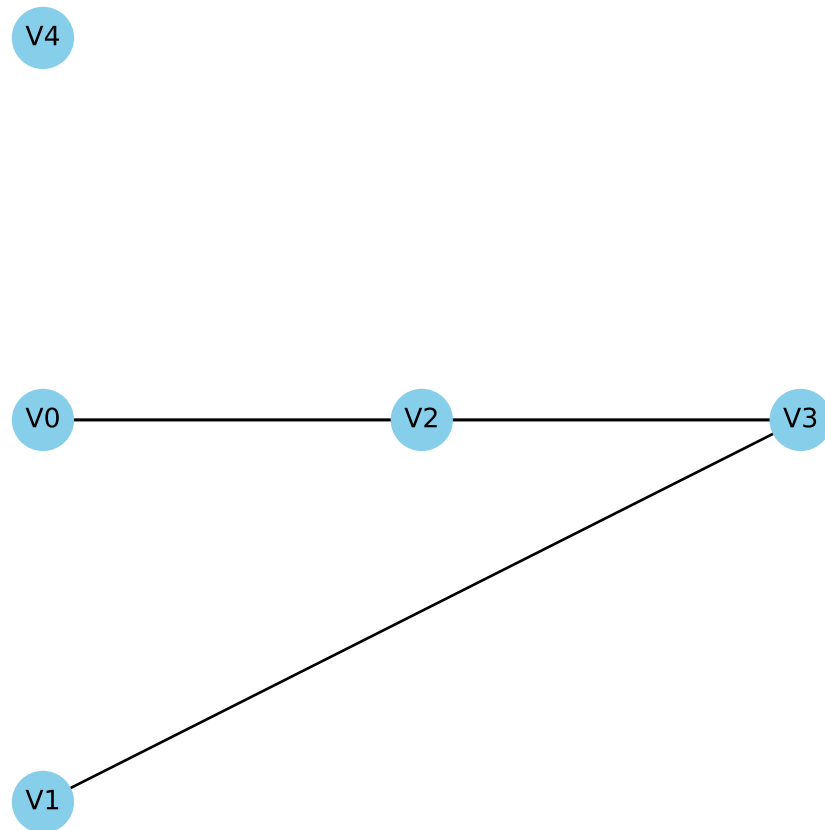
Estimated Skeleton



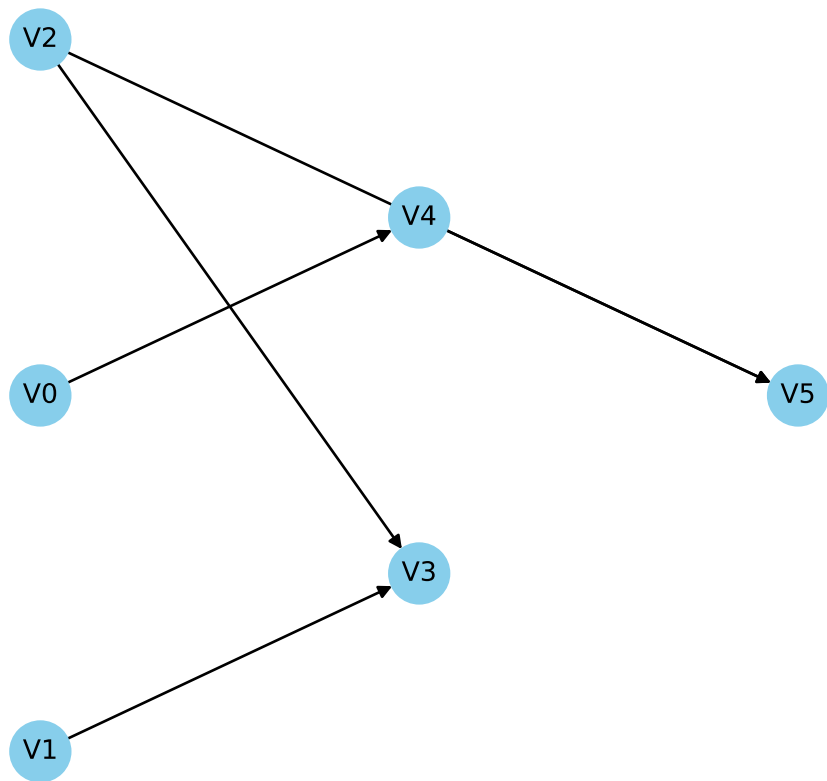
True DAG



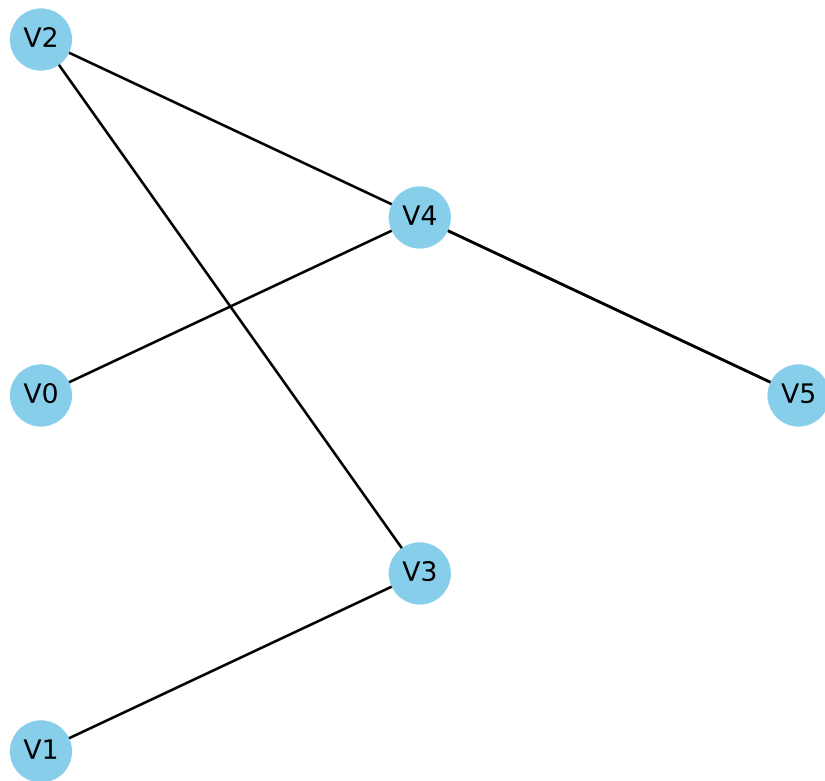
Estimated Skeleton



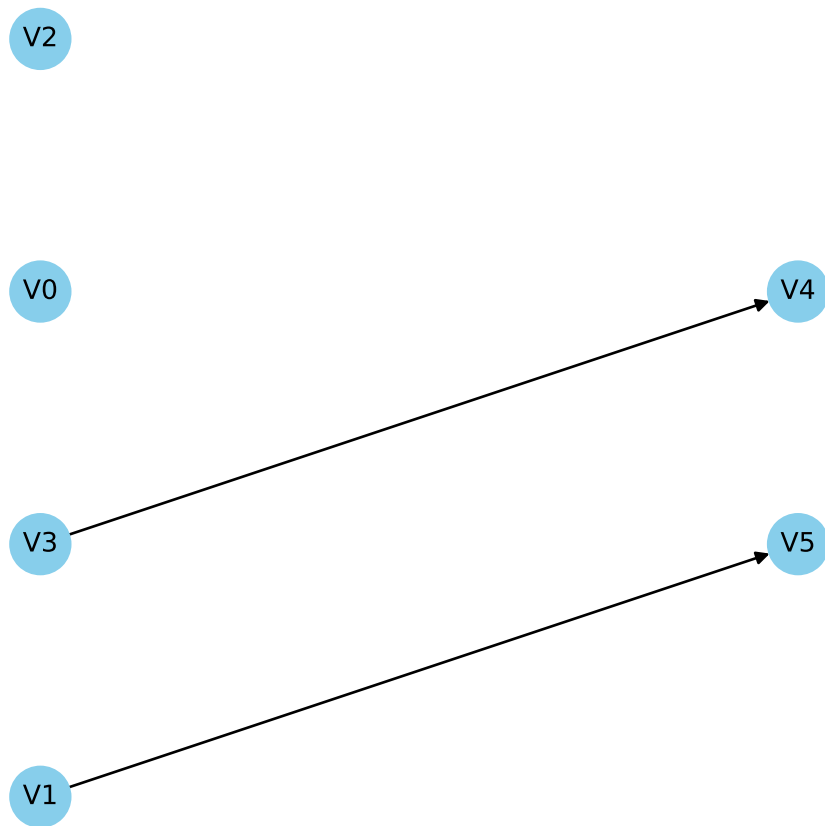
True DAG



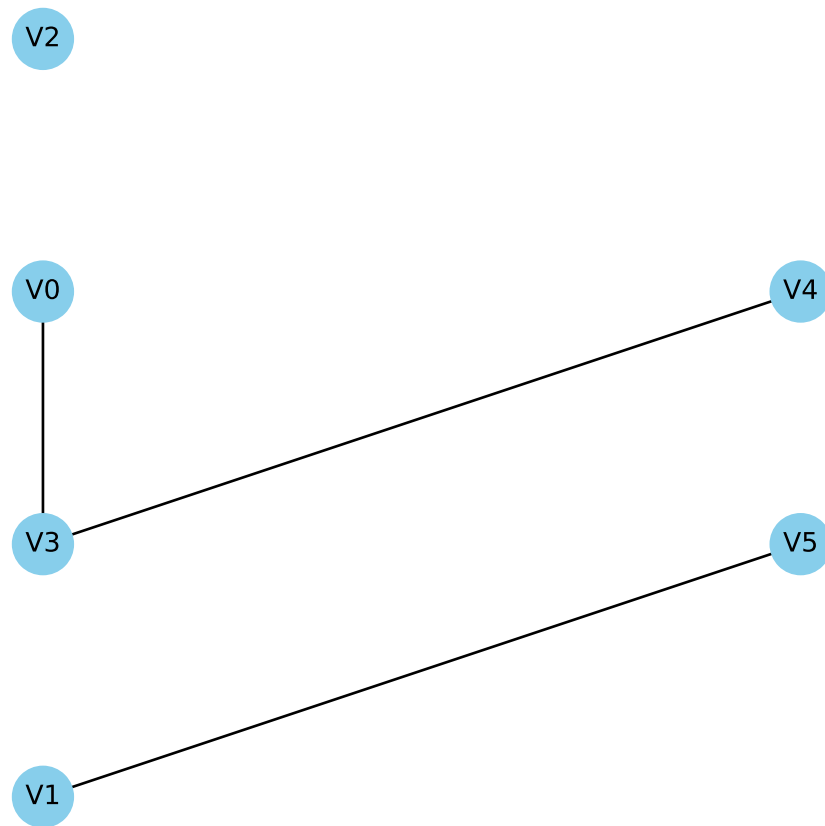
Estimated Skeleton



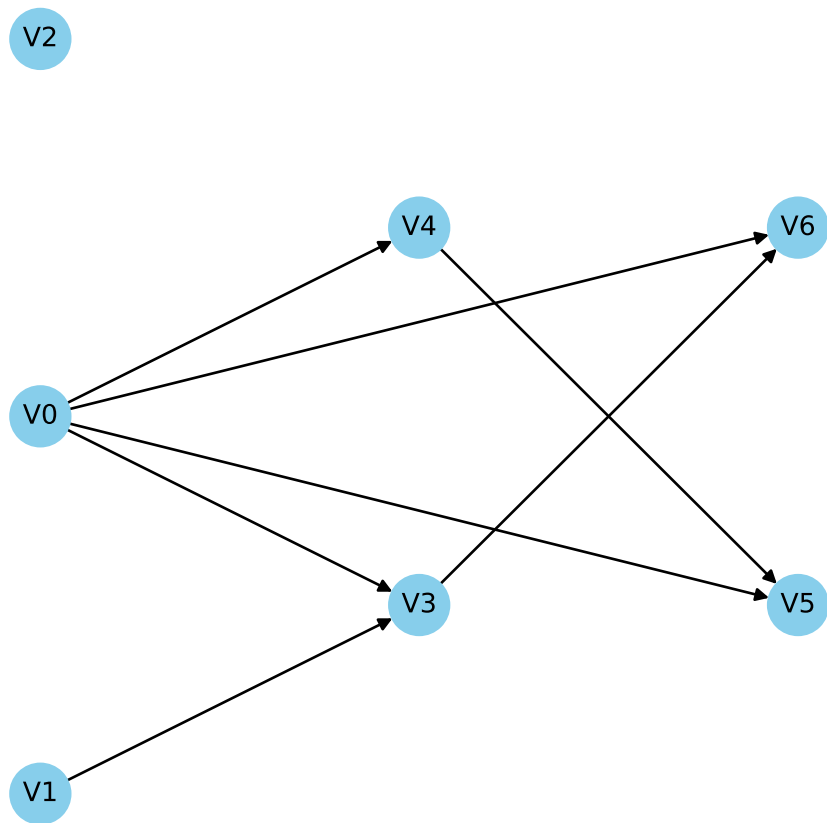
True DAG



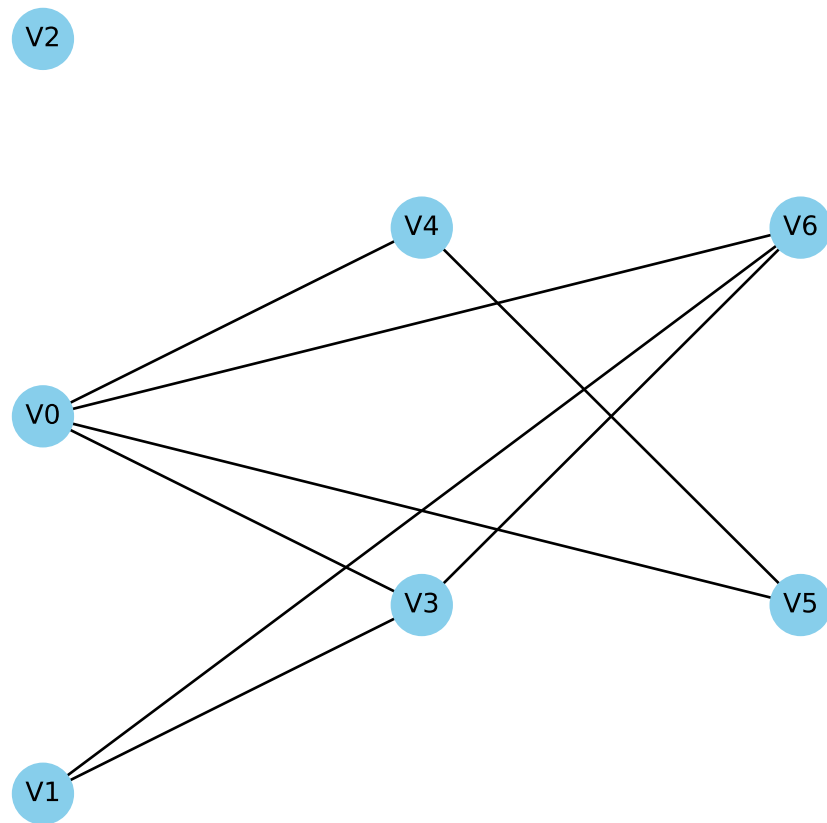
Estimated Skeleton



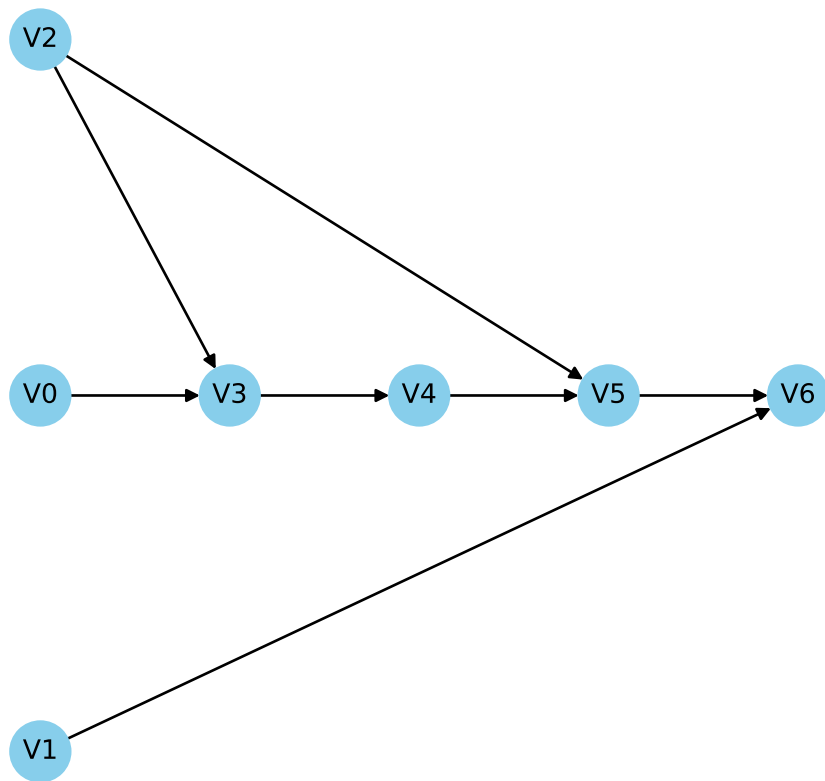
True DAG



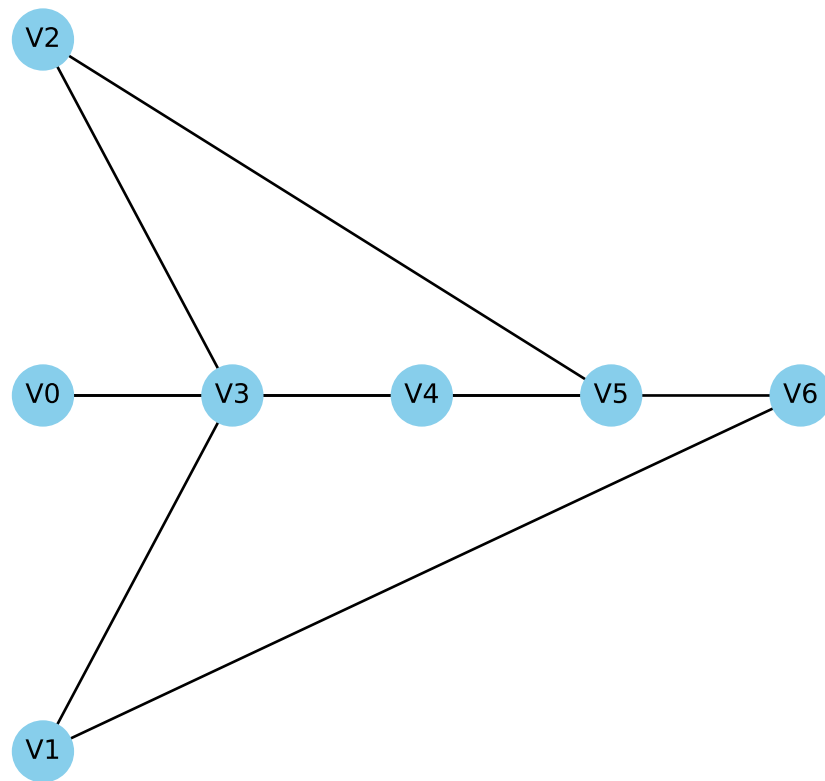
Estimated Skeleton



True DAG

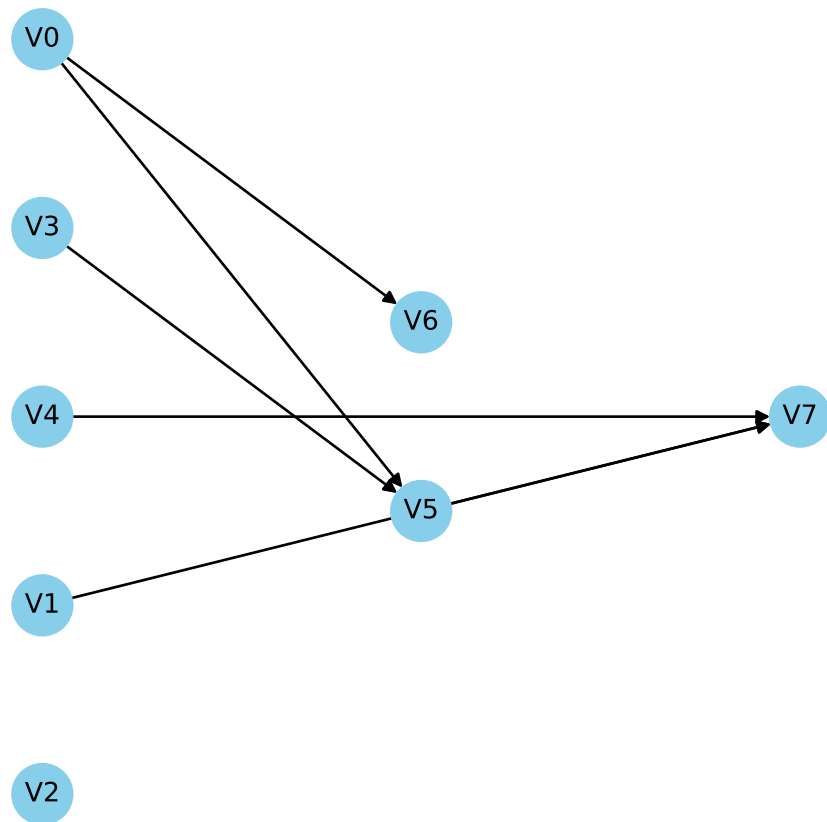


Estimated Skeleton

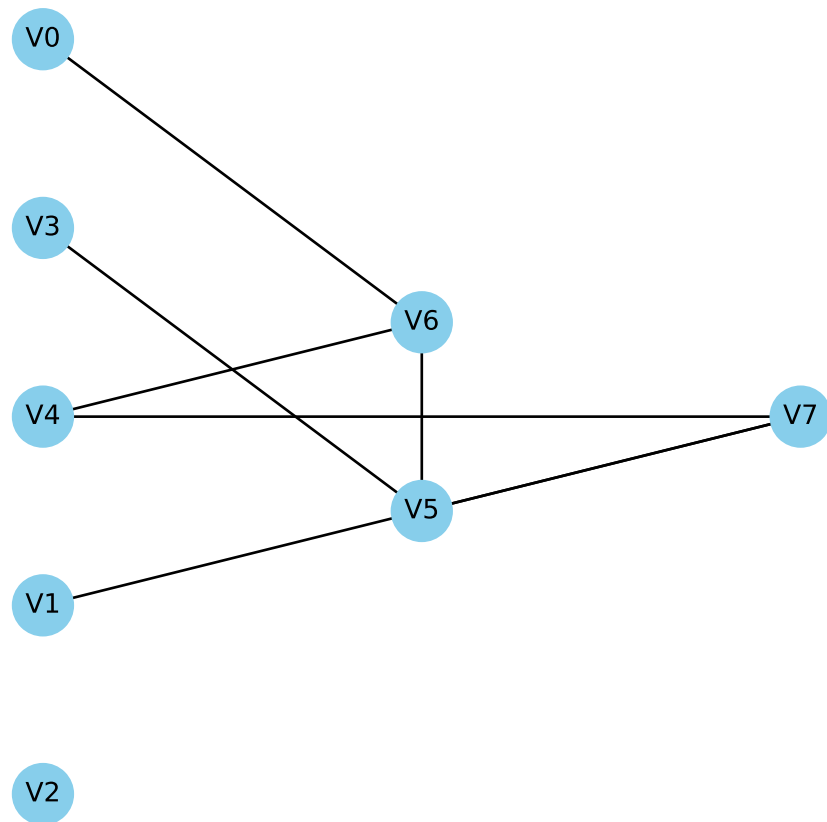




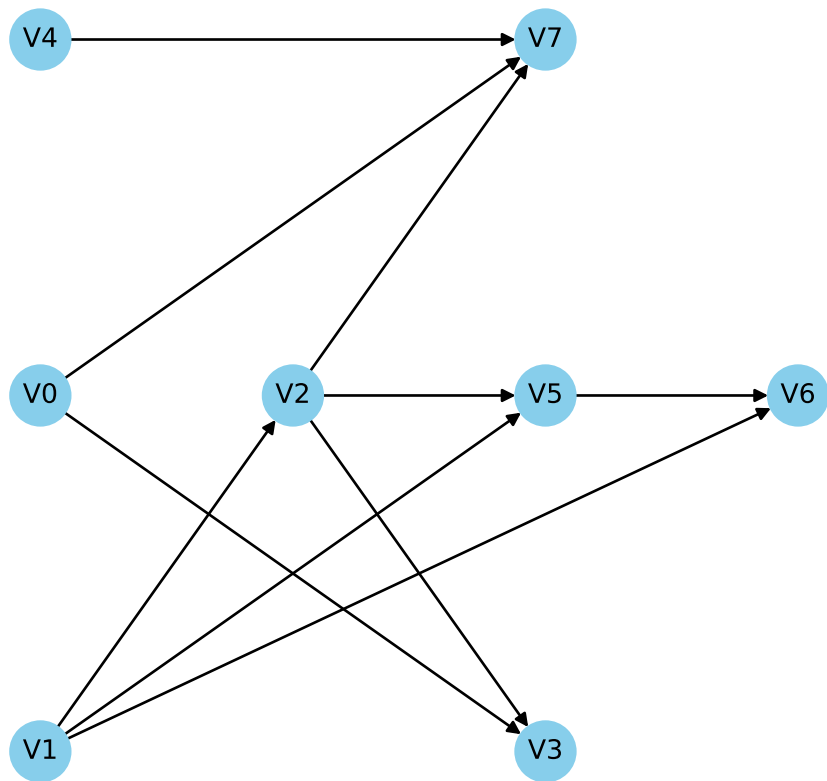
True DAG



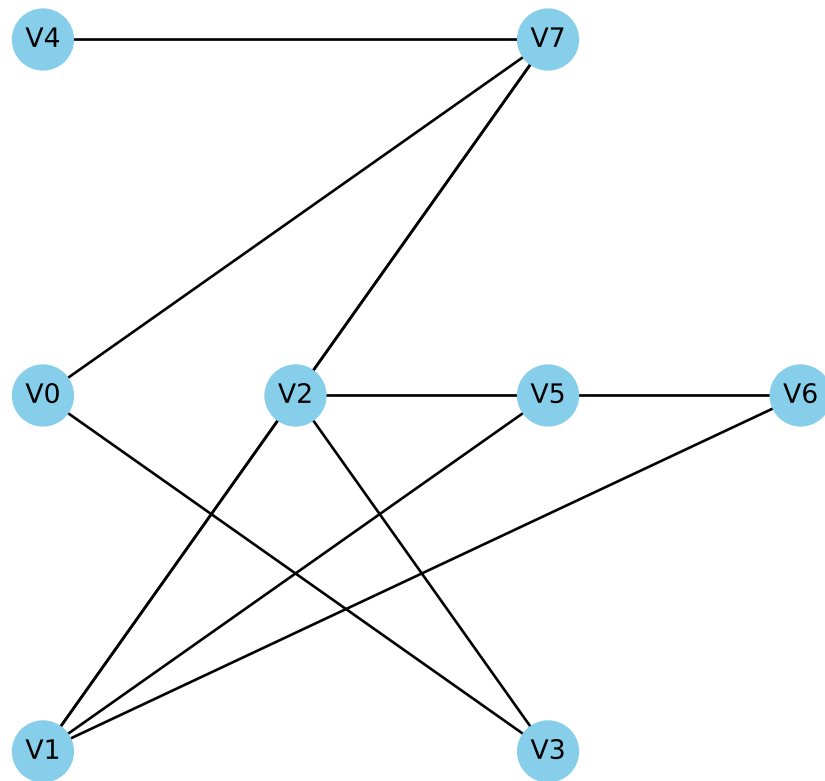
Estimated Skeleton



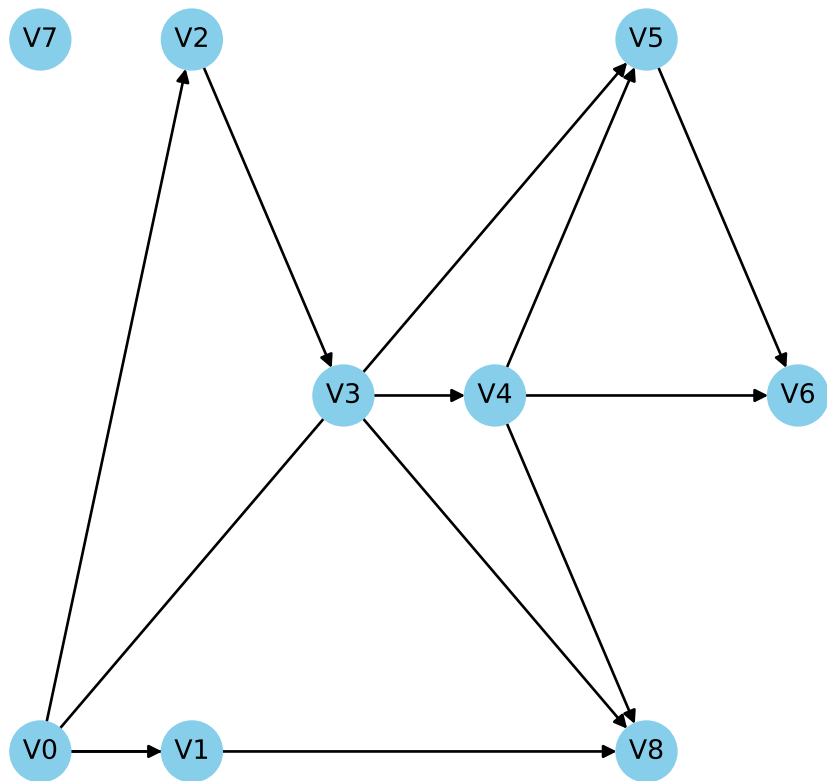
True DAG



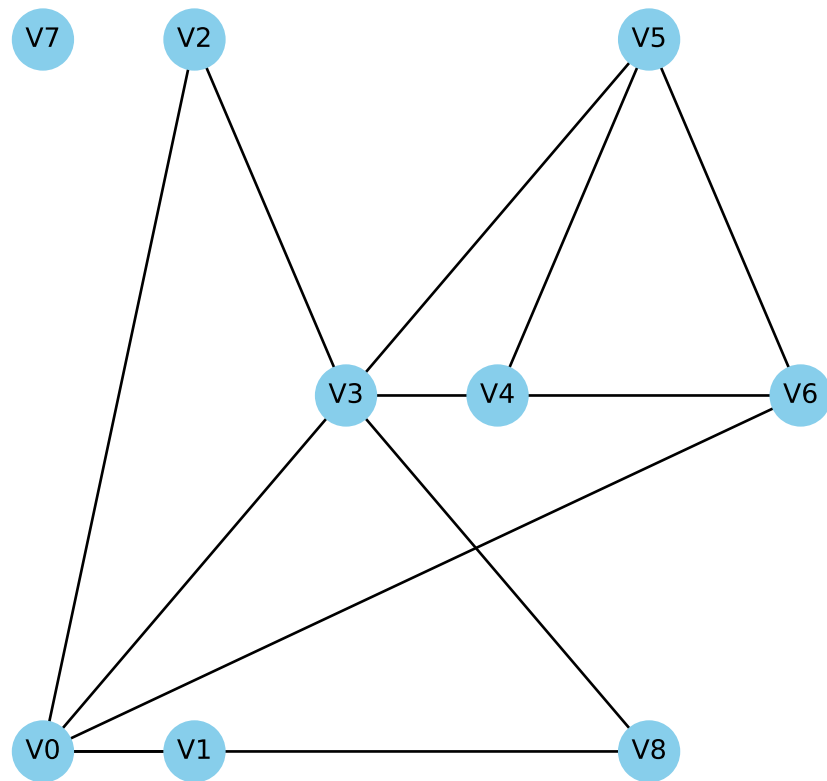
Estimated Skeleton



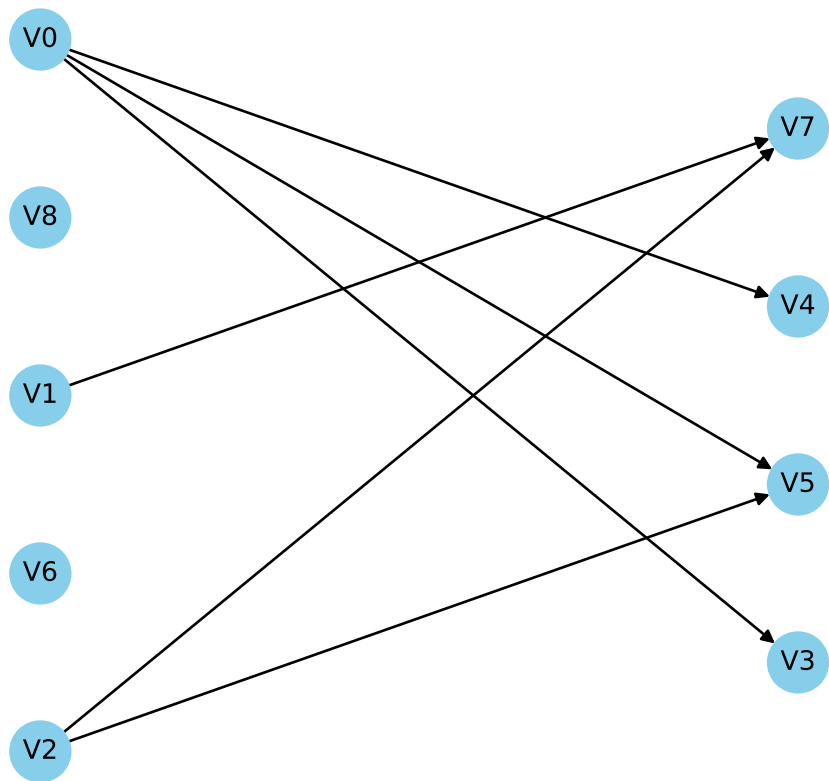
True DAG



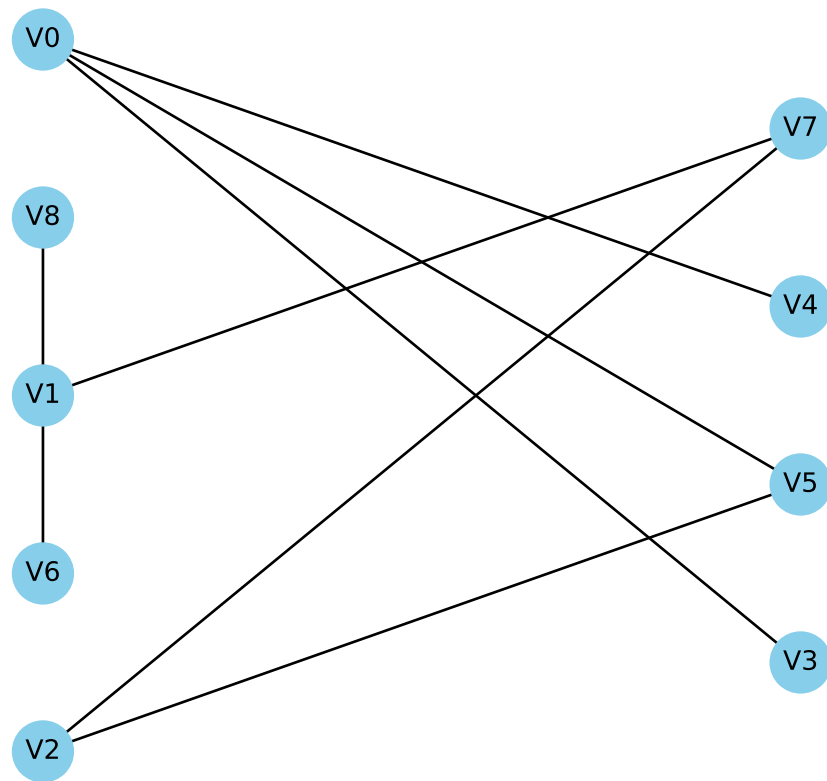
Estimated Skeleton



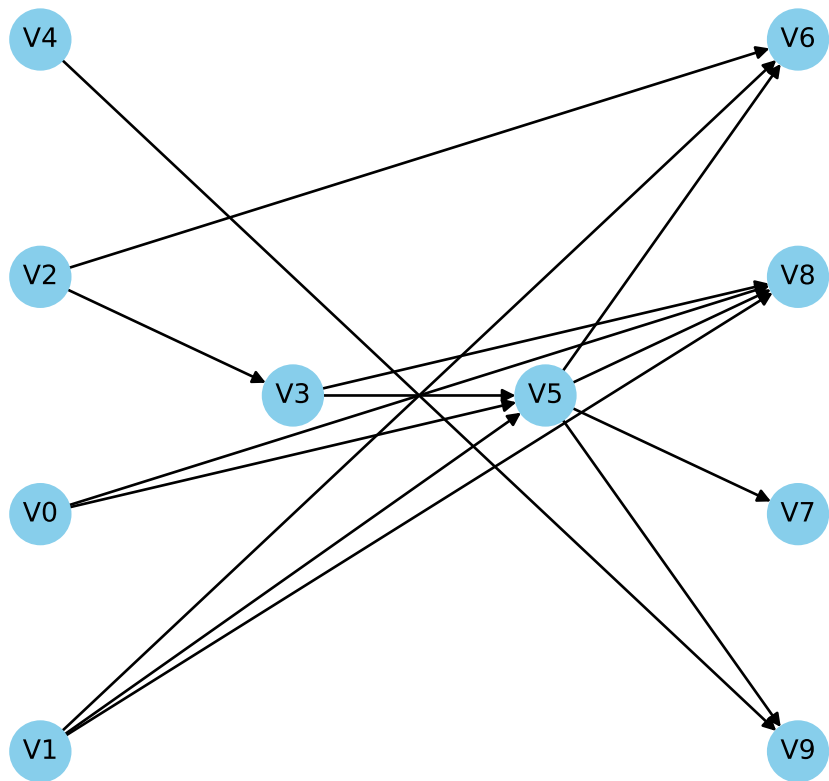
True DAG



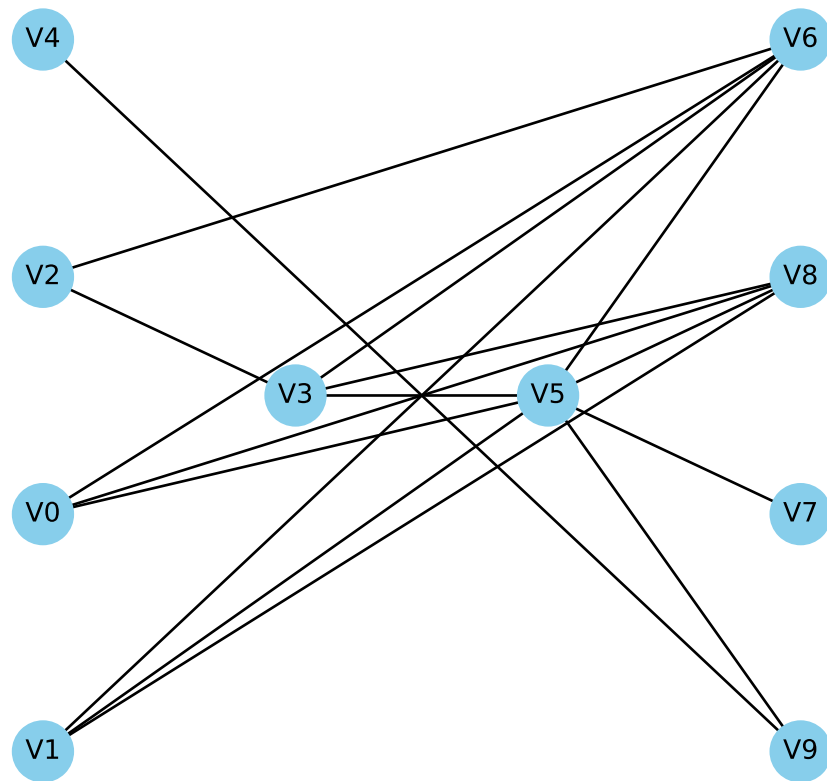
Estimated Skeleton



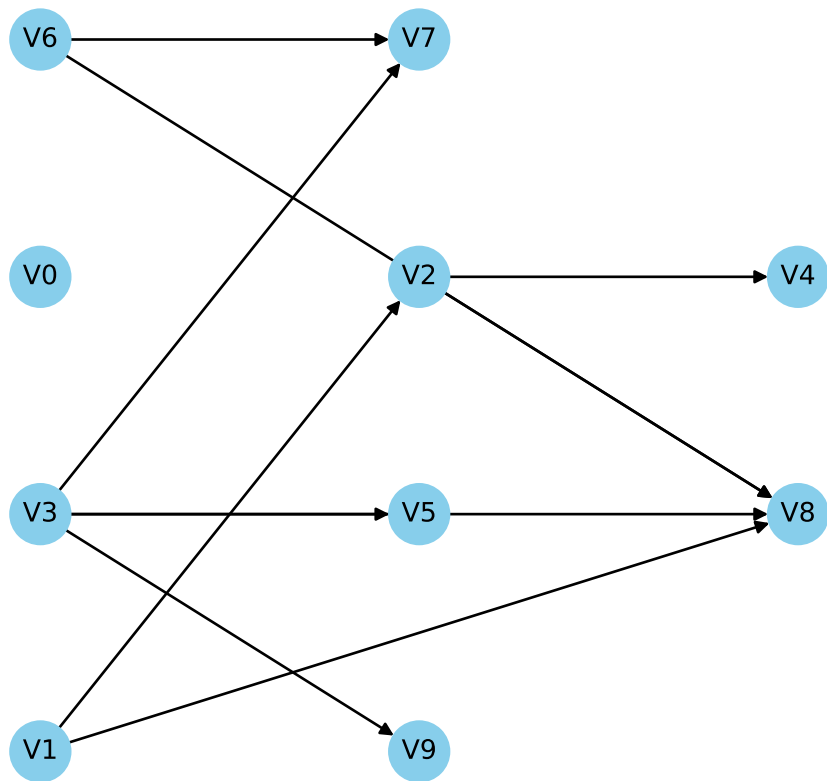
True DAG



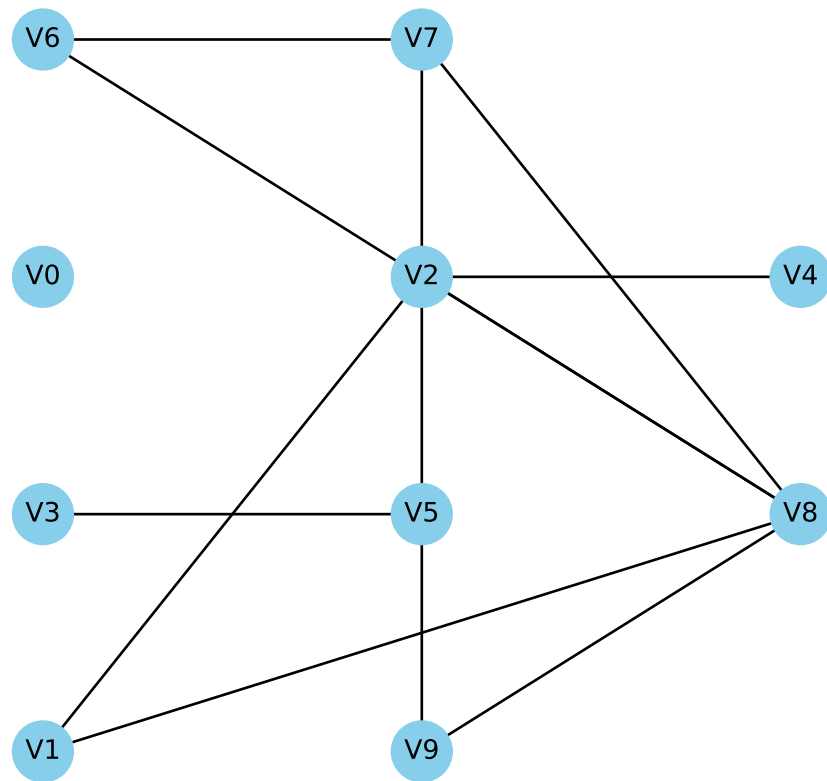
Estimated Skeleton



True DAG



Estimated Skeleton



This PDF gives an overview of the performance of the PC algorithm on models with deterministic variables vs. models without deterministic variables. The following table summarizes the accuracy of PC skeleton search:

Average accuracy for deterministic models: 0.898  
Average accuracy for non-deterministic models: 0.974

Model Size	Deterministic	Accuracy
2	true	1.000
2	true	1.000
3	true	1.000
3	true	0.833
4	true	0.833
4	true	0.917
5	true	0.850
5	true	0.700
6	true	0.967
6	true	0.933
7	true	0.905
7	true	0.952
8	true	0.911
8	true	0.679
9	true	0.944
9	true	0.889
10	true	0.922
10	true	0.933
2	False	1.000
2	False	1.000
3	False	1.000
3	False	1.000
4	False	1.000
4	False	0.833
5	False	1.000
5	False	1.000
6	False	1.000
6	False	0.967
7	False	0.976
7	False	0.952
8	False	0.946
8	False	0.982
9	False	0.972
9	False	0.986
10	False	0.978
10	False	0.933