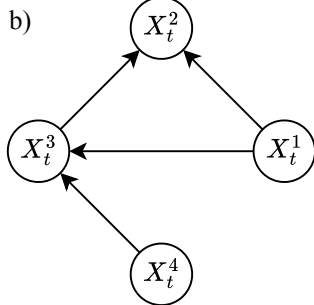


a)

$$X_t^2 = f(X_t^1, X_t^3)$$

$$X_t^3 = g(X_t^1, X_t^4)$$

Generating equations



Directed Acyclic Graph



c)

	X_t^1	X_t^2	X_t^3	X_t^4
X_t^1	0	1	1	0
X_t^2	0	0	0	0
X_t^3	0	1	0	0
X_t^4	0	0	1	0

Adjacency matrix

d)

	X_t^1	X_t^2	X_t^3	X_t^4
X_t^1	0	0	1	0
X_t^2	1	0	0	1
X_t^3	0	1	0	0
X_t^4	1	0	1	0

Predicted adjacency matrix

$$TP = 3, FP = 3, TN$$

$$= 9, FN = 1$$