LEC10	Gaussian	Graphical	Model
	Of 1000	- 11. salphire act	101000

$$\rightarrow$$
 Joint dist $P(x_1, x_2, x_3) := P(X_1 = x_1, X_2 = x_2, X_3 = x_3)$

→ Conditional independent

$$X_1$$
, X_2 is conditional independent given X_3

$$\Leftrightarrow p(x_1,x_2|x_3) = p(x_1|x_3) p(x_2|x_3)$$

$$\rightarrow$$
 Directed Graph G= (V,E)
(assume no self-loop)

-> if
$$\chi \sim \mathcal{N}(0, \mathbb{Z})$$
, then $\chi_3 \perp \chi_4 \mid \chi_{V-\{5,43\}}$



