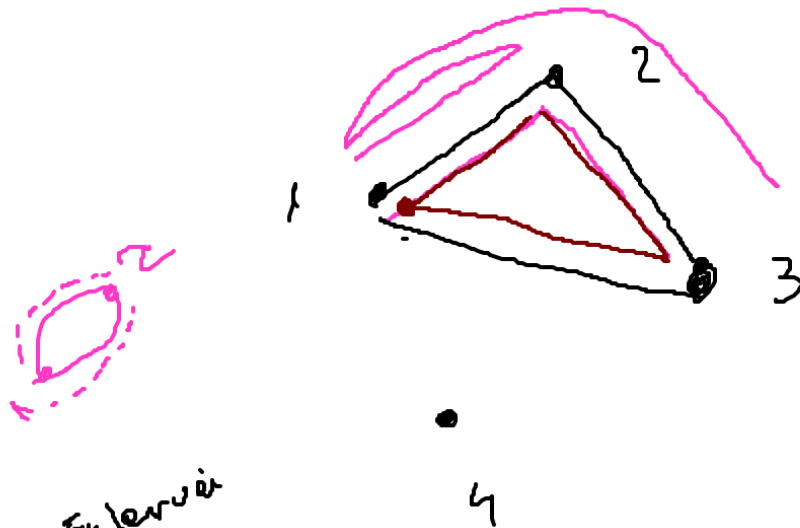


Kap 22 : Wandringen i grafer



eucl graf

$$\begin{array}{l} \downarrow \\ 12 \rightarrow 1 \\ \hline 123 \Rightarrow 2 \end{array}$$

wandringar

12123

→ Hamiltonski

$$\begin{array}{l} \text{Sti: } 12 \\ = \\ 123 \end{array}$$

gienta
illa
nodes

Eulerian

↓

$$\frac{ve_i}{121231}$$

⇒ gienta illa
kanter

$$\begin{array}{l} \downarrow \\ 1231 \end{array}$$



⇒ enllte vandring ⇒ sykel (gienta illa nodes)

⇒ krets (gienta illa kanter)



Eulerweg
Eulerkreis

} =>

decke alle grafen
voraussetzung: alle grafen
alle kanten

↗
2 noden med oddetall => eulervei
0 noden med oddetall => eulerkreis



-> eulervei

Hamiltonweg
Hamiltonsykel

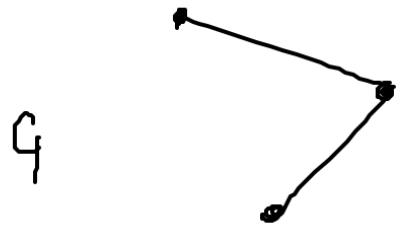
} =>

decke alle grafen
alle cykliske noden

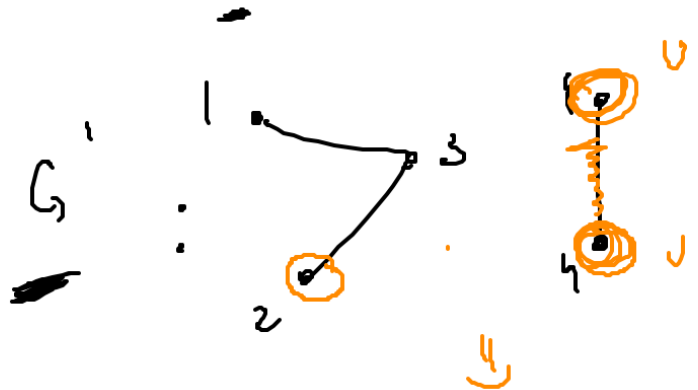
↘
restriktiv

↑
sammenhengende graf

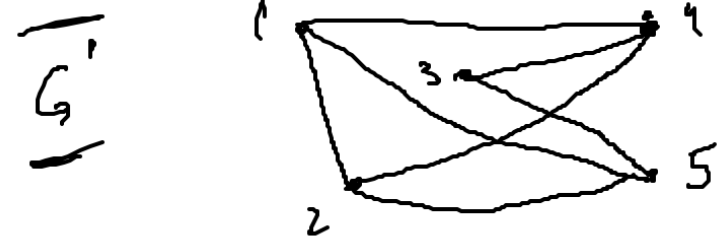




$= 2 \cdot 2 \cdot 8$
a)

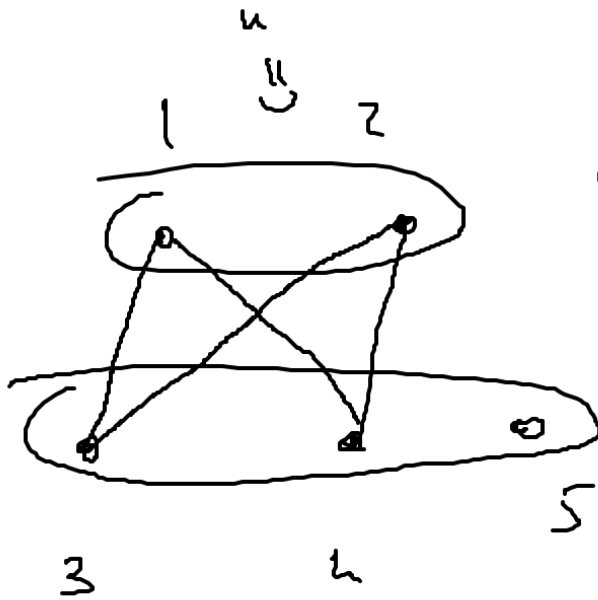


\Rightarrow tilfelle 1) v og v
naboer i G'
2) v og v
ikke naboer



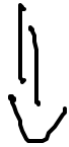
22.10

d) $G \Rightarrow$

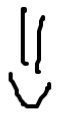


$$U = \{1, 2\}$$

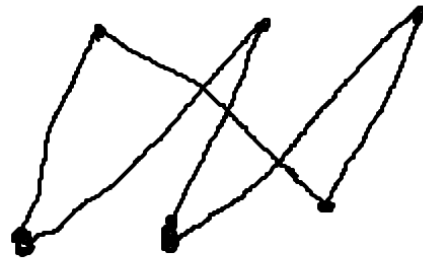
$$V = \{3, 4, 5\}$$



Hvis en graf er todelt så alle syklener i grafen har længde partall



Antag at grafen er todelt



længde 6