## Tree Decomposition

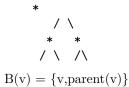
- Tree width tw(G) = min (min f(G) load (T,f)) 1
- (G,T)

 $B:V(T) \rightarrow 2^V(G)$  \* Adjacency and Decomposition

• Width =  $\max$  load

 $\min (width(T,B))$ 

## def1 == def2



## 3\*n grid Decomposition

## What makes tw big

• Presence of big clique

$$tw(k*k) = k$$