Exercises solved at the recitation on 6. 11. 2007

- Find a family of ^(k+s-2)/_s s-element sets without a k-sunflower.
 Find a family of (k 1)^s s-element sets without a k-sunflower.
- Let \mathcal{F} be a family of subsets of [n] such that each two sets in \mathcal{F} intersect. Show that $|\mathcal{F}| \leq 2^{n-1}$. Show that this estimate is best possible.
- Let $k \ge 2$. Show that a graph G = (V, E) with $|E| \ge (k-1)|V|$ contains every tree with k edges as a subgraph.