

# 1 Problems list

## 1.1 Unsolved problems

- US graphs,  $\omega = 2$ ,  $\Delta = 3$ , can a Type 2 graph exist?
- On a grid:  $<$  order is proper.
- On a grid: can we add planarity?
- Finding small graphs that can't be US or conditions for US

## 1.2 Solved problems

- US graphs,  $\omega = 2$ ,  $\Delta = 4$ , a Type 2 graph does not exist.
- On a grid:  $<_d$  is well defined.
- Every US graphs have four vertices of degree less than 2.