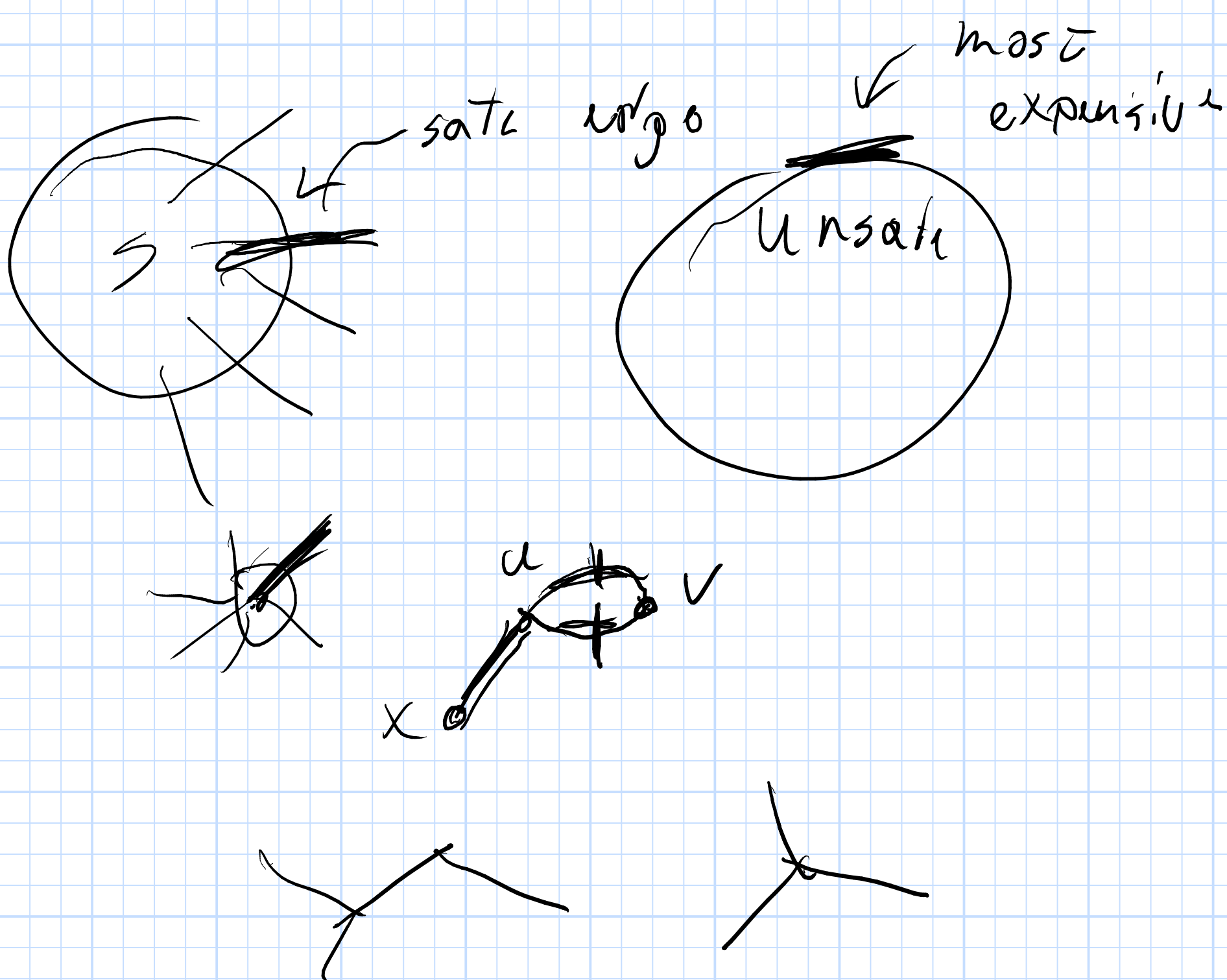


Directed MST

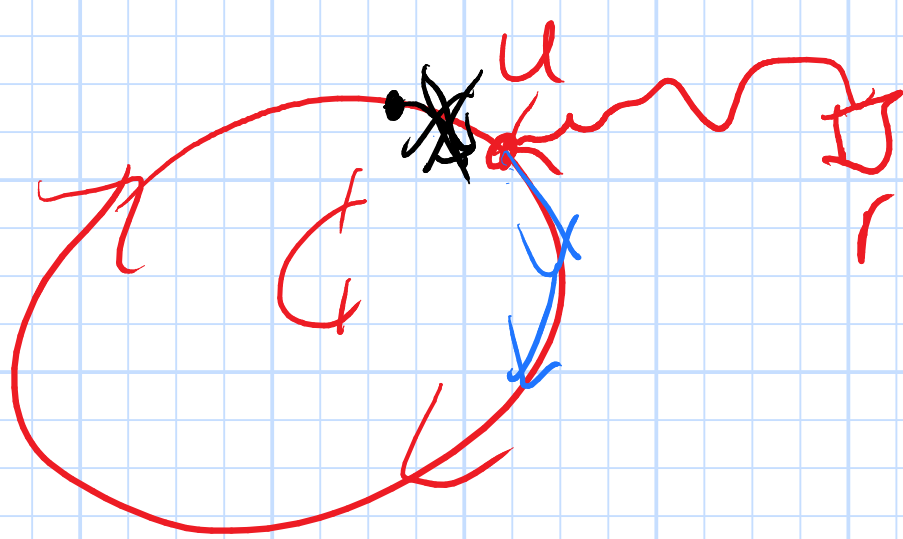
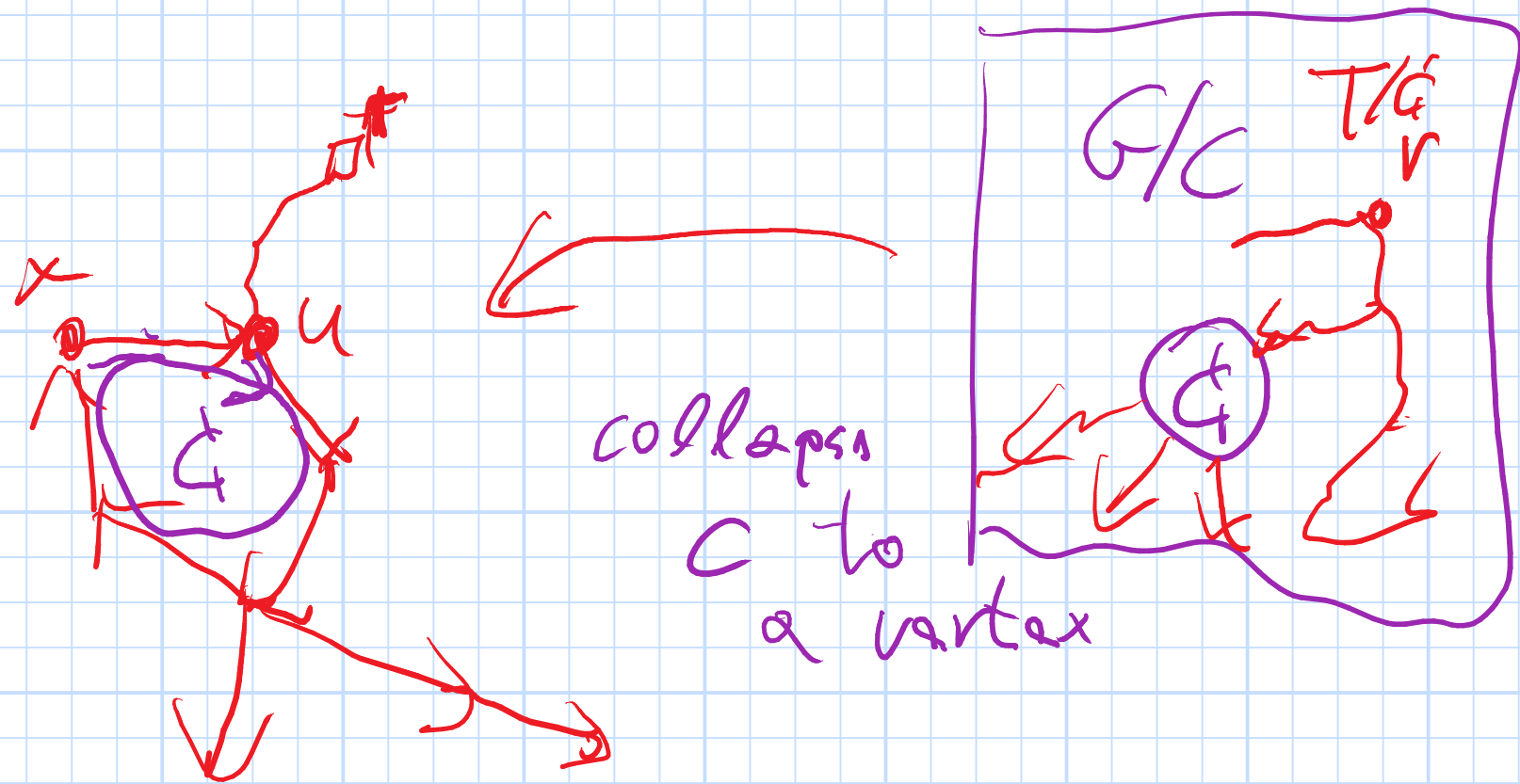
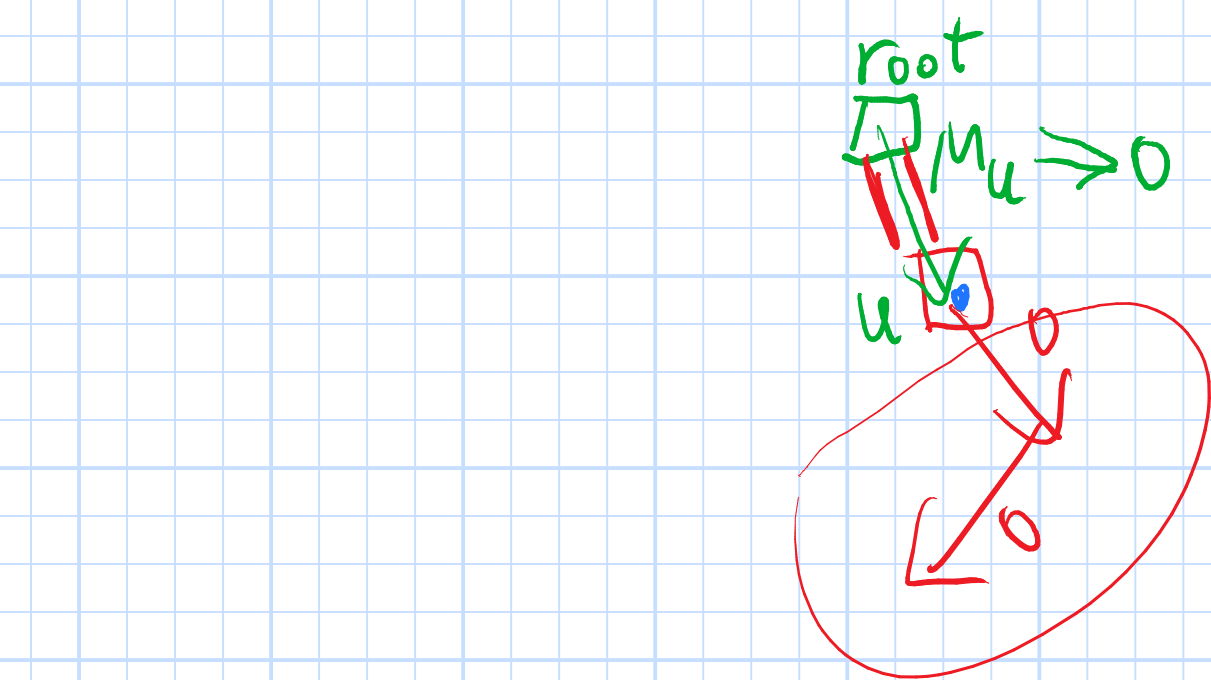
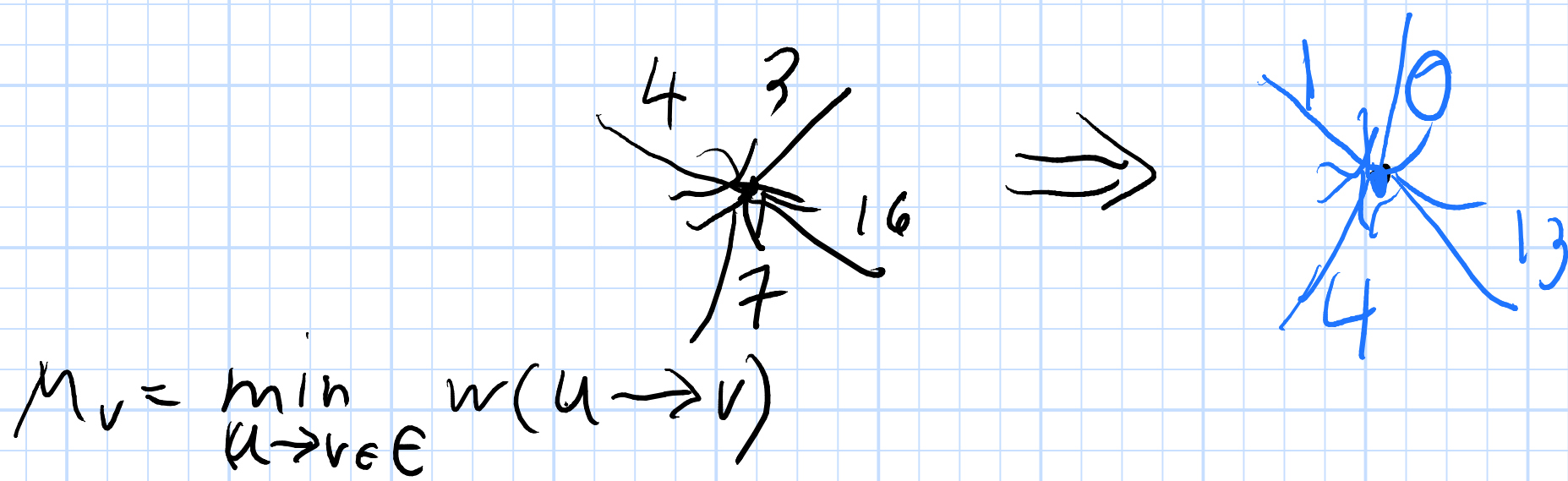


Directed MST (Arb...)

G is directed, $w(u) \geq 0$ with $u \in E$
 r : root vertex

Lemma

- T be optimal DMST:
- every vertex has exactly one incoming edge as long as it is not the root,
- There are no cycles.



$$O(n(n+m))$$

