

# Discussion 9

Sunday, October 28, 2018

9:05 PM

## Topic: Matching. Reduction

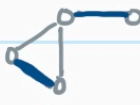
### matching

- a set of edges without common vertices  
"pair friends up"
- maximal matching: cannot add one more edge
- maximum matching: matching with maximum possible number of edges

e.g.



maximal,  
not maximum



maximum  
(and maximal)

### Reduction

- A reduces to B : B is at least as hard as A  
If you solve B (efficiently), I can solve A (efficiently).