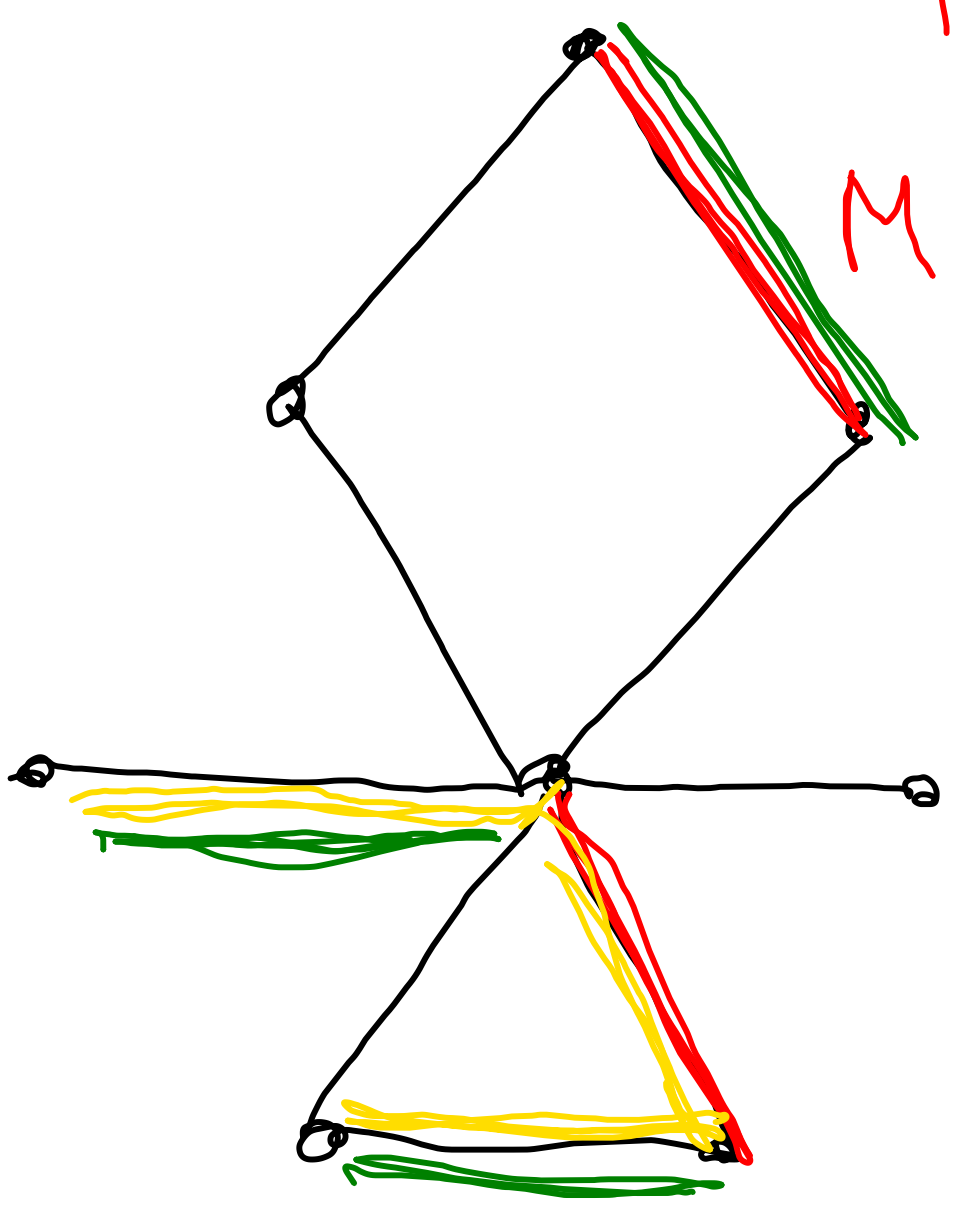
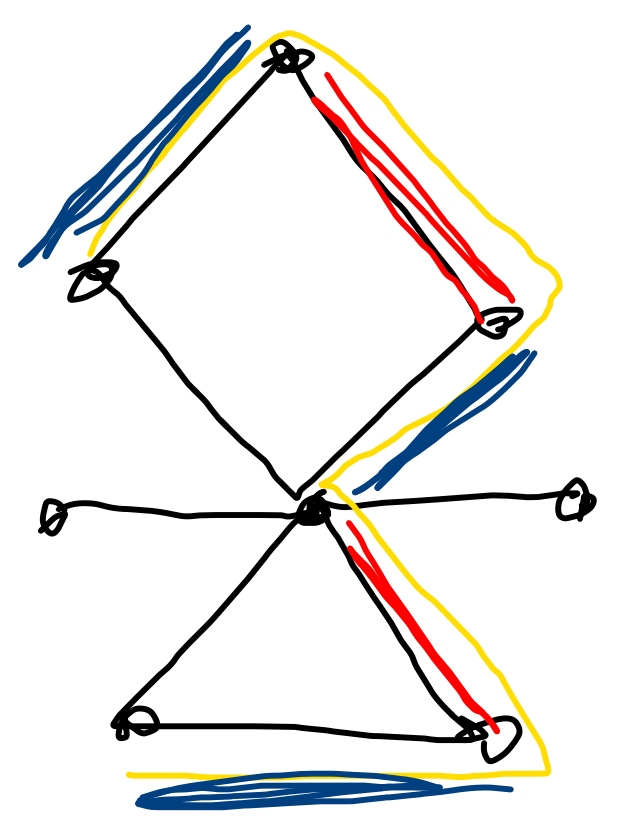


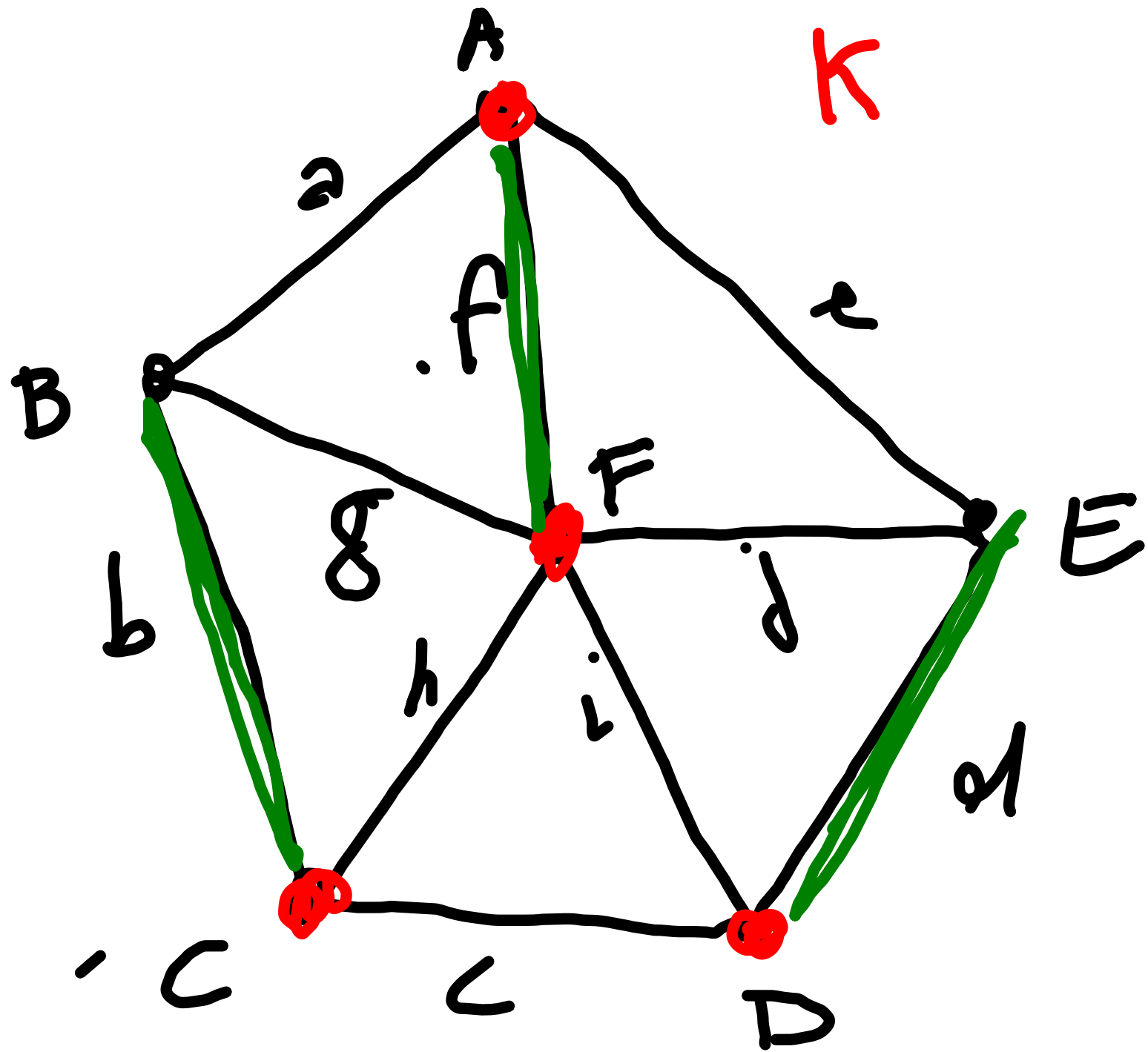
This is a maximal matching
 but not maximum



M' is (maximal and)
 maximum

M'' is
 (maximal and)
 maximum



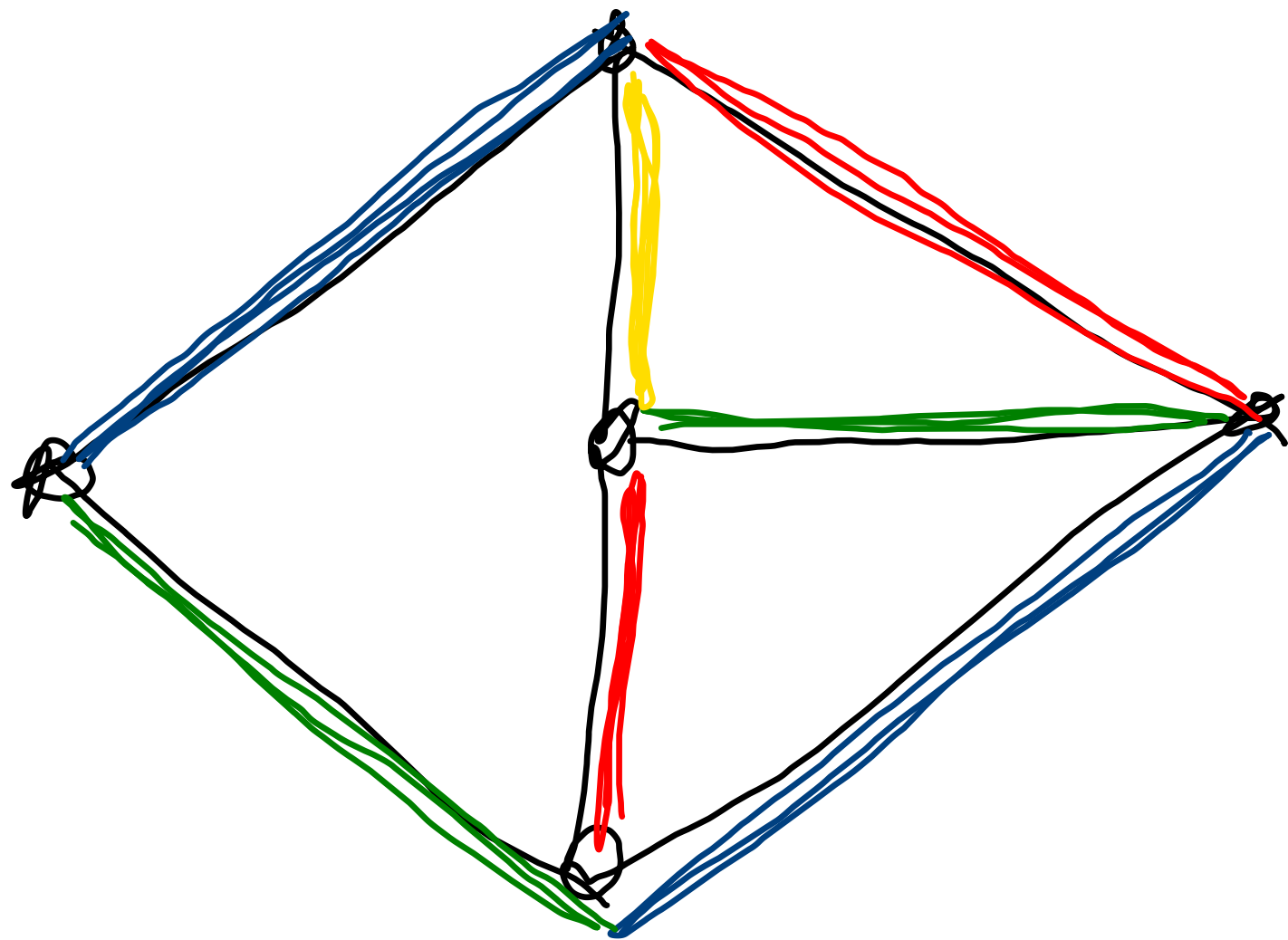


$$M = \{b, d, f\}$$

$$K = \{A, C, D, F\}$$

$b \mapsto c$
 $d \mapsto D$
 $f \mapsto F$

$$|M| \leq |K|$$



Ind. set

$$\alpha + \beta = \nu$$

Covering

bip: $|max ind| = |min edge cov|$

bip: $|max M| = |min K|$

$$|M| \leq |K|$$

Matching

$$\alpha' + \beta' = \nu$$

Edge covering

$$V - \beta \leq \alpha$$

$$V - \alpha \leq \beta$$

$$V \leq \alpha + \beta$$

$$V \geq \alpha + \beta$$

$$\Rightarrow \alpha + \beta = V$$

$$h(3, 5) = 14$$

