

12 3-17:58

D.V:  
 $G \in R \Leftrightarrow$  heboš. podvezl  $k_{33}$   
 $k_5$

$\forall |V|+|E|=2+|E|$  ?  
 $|E| \leq 2|V|-4 \dots$  bez  $\Delta$   
 $|E| \leq 3|V|-6$

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$|E| \leq 3 \cdot |V| - 6$

$\frac{4 \cdot 4 + 5 \cdot 4}{2} = 18$  hran

$|18| \leq 3 \cdot 8 - 6$

$|18| \leq 18$  ✓

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$(\bar{6}; \bar{6}; \bar{6}; \bar{7}; \bar{7}; \bar{7}; \bar{7}; \bar{8}; \bar{8}; \bar{8})$

$|V| = 10$

$|E| = \frac{3 \cdot 6 + 3 \cdot 8 + 4 \cdot 7}{2}$

$= 3 \cdot 3 + 3 \cdot 4 + 2 \cdot 7$

$= 9 + 12 + 14$

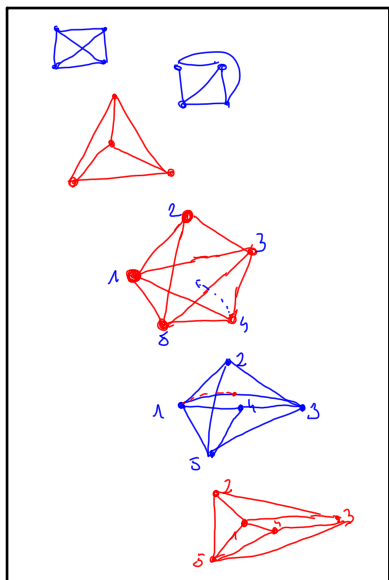
$= 35$

$|E| \leq 3 \cdot |V| - 6$

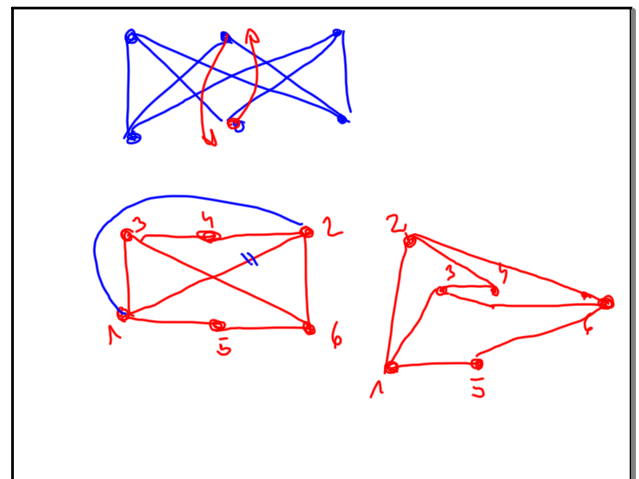
?  $35 \leq 3 \cdot 10 - 6$

$35 \leq 24$





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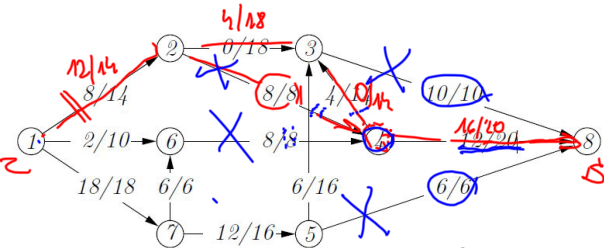
1) 8 hrav  
 2)  $\text{je-li } R \Rightarrow |E| \leq 3|V| - 6$   
 $K_5$  má 10 hrav,  $K_{3,3}$  má 9 hrav  
 2)  $TR \Rightarrow 7H$  Ne  
 $H \Rightarrow R$   
 $(K_5)$   
 3)  $TR \Rightarrow H$   
  
 4)  $TR \Rightarrow E$   
  
 5)  $TR \Rightarrow E$   
  
 6)  $H \Rightarrow R$   


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8)  $K_5$

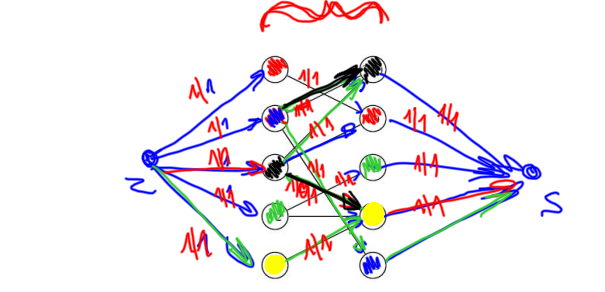
9) 

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1)  $1 \xrightarrow{6} 2 \xrightarrow{18} 3 \xleftarrow{4} 4 \xrightarrow{3} 8$   
 2)  $1 \rightarrow \dots$

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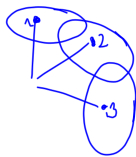


2  $\rightarrow$   $v_5 \rightarrow v_9 \rightarrow S$   
 2  $\rightarrow$   $v_4 \rightarrow v_{10} \rightarrow S$   
 2  $\rightarrow$   $v_3 \rightarrow v_7 \rightarrow S$   
 2  $\rightarrow$   $v_2 \rightarrow v_8 \rightarrow S$

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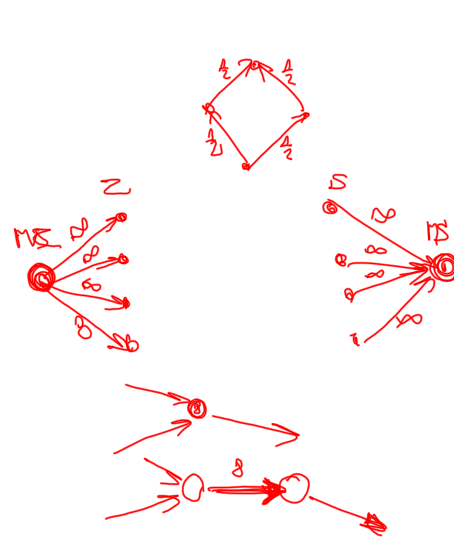
$M_1, M_2, \dots, M_k$

$|M_1 \cap M_2| = 1$   
 $|M_1 \cap M_3| = 1$   
 $\vdots$   
 $|M_1 \cap M_k| = 1$   
 $|M_i| = k$  *7 hrav*



$M_1: 1$   $M_3: \dots 5$   $M_6: \dots 2$   
 $M_2: \dots 7$   $M_4: \dots 6$   $M_7: \dots 5$   
 $M_5: \dots 4$

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