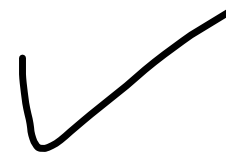
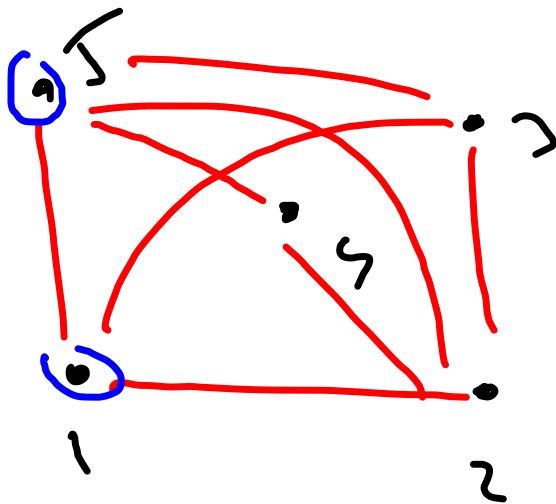


a) $(5, 5, 4, 4, 4, 4, 3, 3, 2, 2)$

b) . " —

c) - " —

d) $(5, 5, 4, 4, 4, 3, 3, 3, 3, 2)$



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$(5, 5, 4, 2, 1, 1, 1, 1)$

}

$(4, 3, 1, 0, 0, 1, 1)$

}

$(2, 0, 0, 0, 0, 0)$

NE

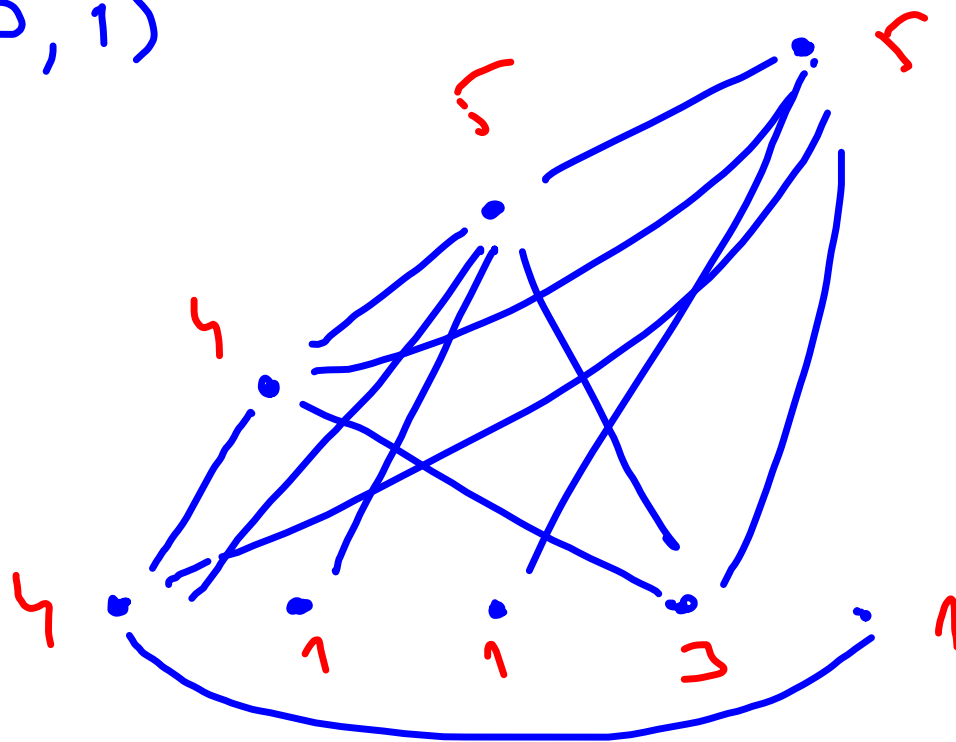
(5, 5, 4, 2, 3, 1, 1, 1)

(4, 3, 3, 2, 0, 1, 1)

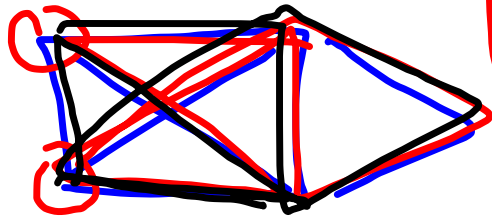
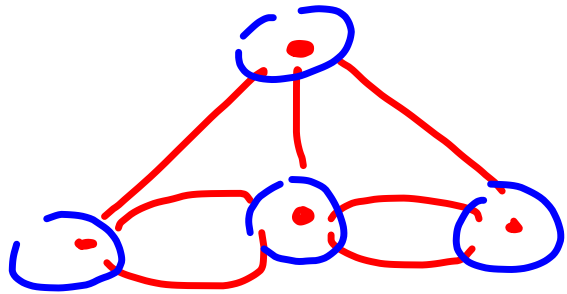
(2, 2, 1, 0, 0, 1)

(1, 0, 0, 0, 1)

ANO

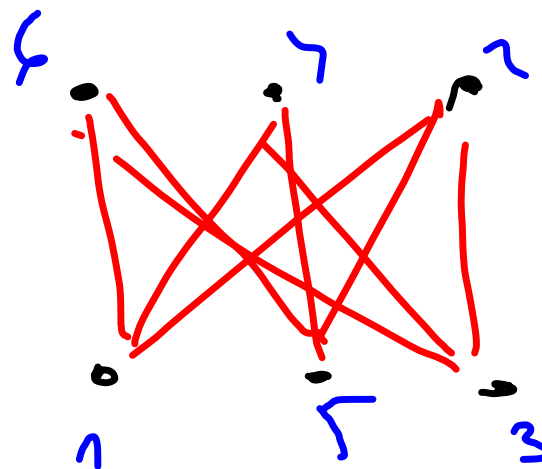
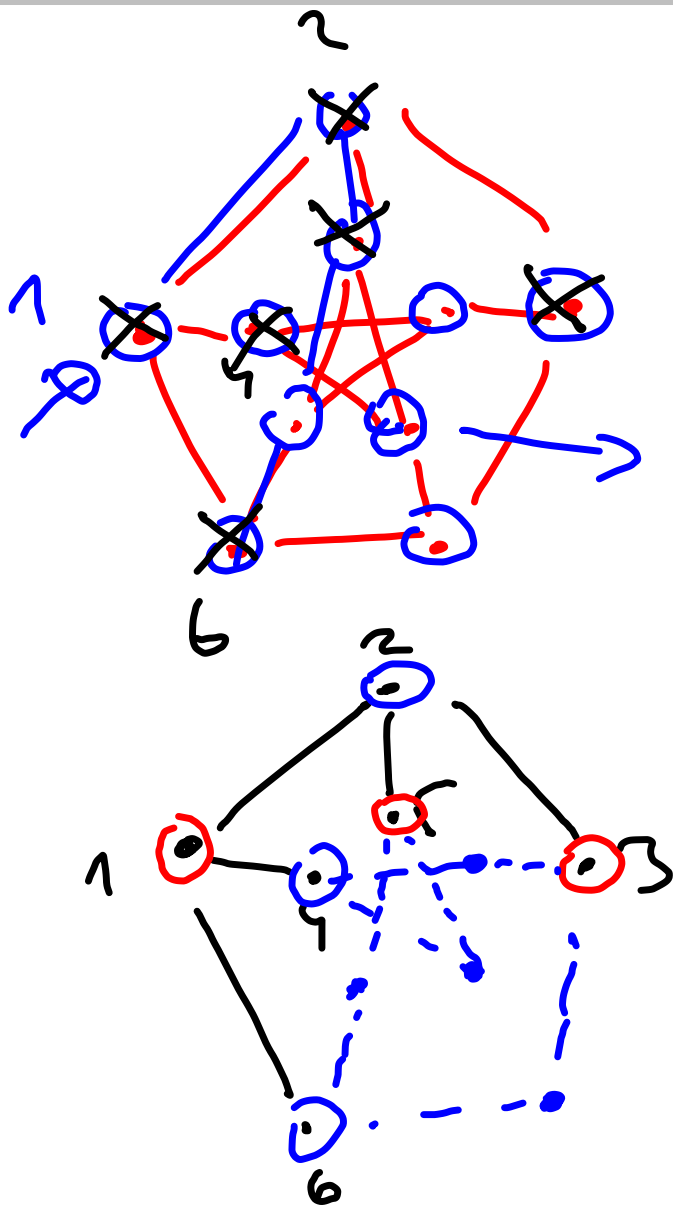


a) Eulerov sled . vždy každý
 právě jednou



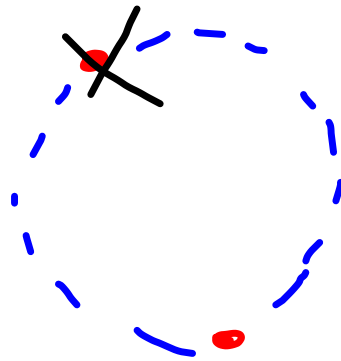
uzavřený s. (\Leftrightarrow) vždy
 právě
 jednou!

b) Hamiltonov kruh : právě
 jednou každou vrš. (nejméně
 2) (vrš. každý)



Domnělé implikace: každý spojitý
cvičení

Příklad: dokážte, že Hamiltonovský graf
je v každém 2-spojitém.



Pláňte / ynefte:

c) $G = (V, E)$ $|E| < 9$
je rovinný?

AND

b) G není rovinný \Rightarrow
není kmitkovaný
NE ($K_{3,3}$ je)

c) G není rovinný \Rightarrow
je kmitkovaný
NE

graf rovinný:

bez schvátů v
 \mathbb{R}^2 bez křížení

lze

K_5 $|E| = 10$

$K_{3,3}$ $|E| = 9$

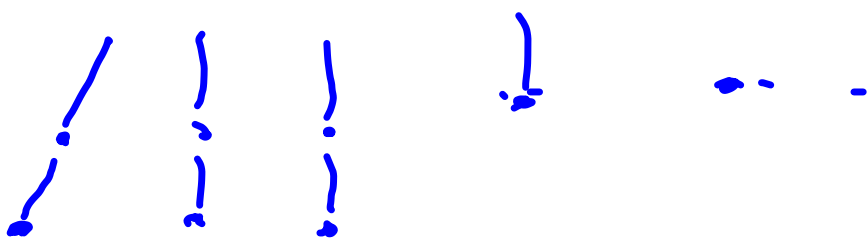
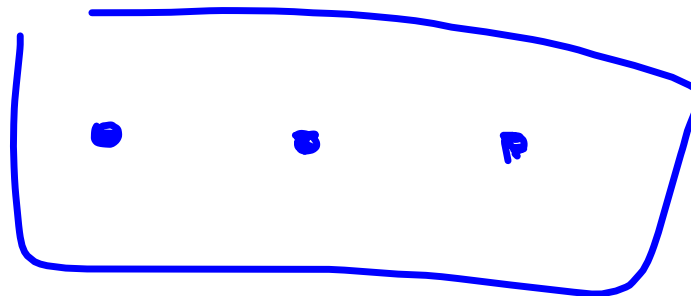
Strong:

$$G = (V, E)$$

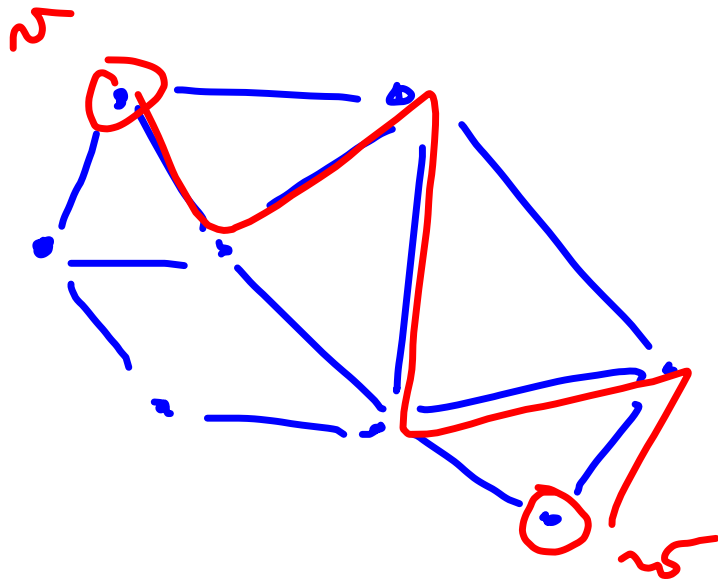
Prove by

$$|V| = |E| + 1$$

i



metody na grafech: $d_G(v, w) =$
detla nejvetsi cesty mezi v, w , resp. ∞
pokud neexistuji

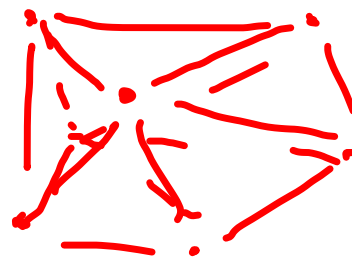


$$d(v, w) = 3$$

a) $d(v, w) = 0$
 $(\Rightarrow v = w)$

b) symetrie

c) Δ nemat



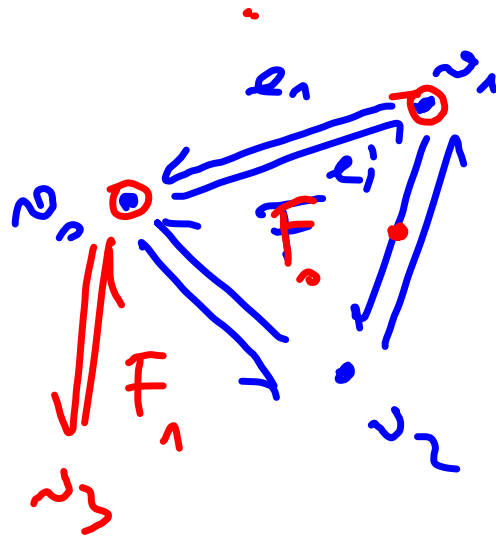
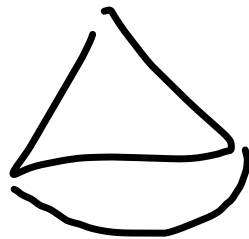
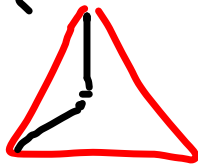
F .. stary
 E .. hraný
 V .. vrcholy

DCEL

$r_{i+1} \Rightarrow$

$$|V| - |E| + |F| = 2$$

r_{i+1} r_{i+1} r_{i+1}



$$d(u, v) \leq d(u, z) + d(z, v)$$

