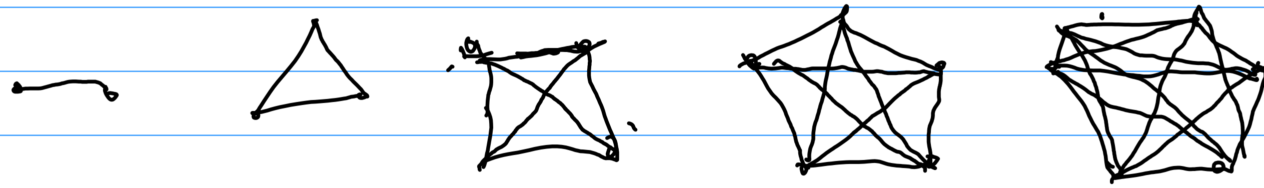
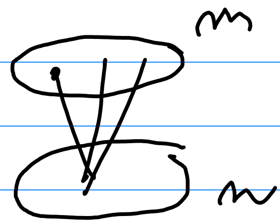
K_n K_2, K_3, K_4, K_5, K_6

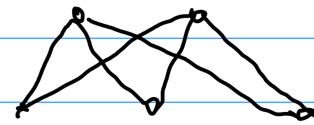


K_n $n + n-1$ $\frac{n(n-1)}{2}$

$K_{m,n}$

$m \cdot n$





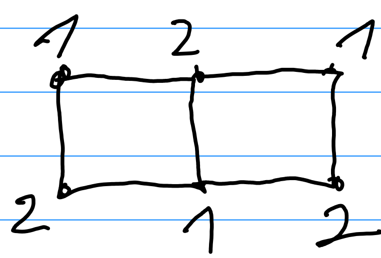
$K_{2,3}$

---

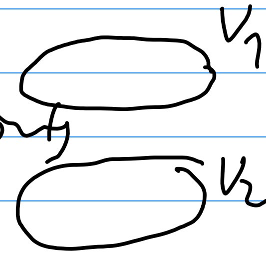
pravidelný graf nepárného stupně s nepárným počtem vrcholů

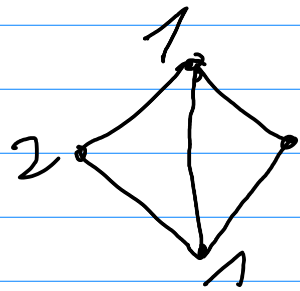
n vrcholů stupně m

$n \cdot m$ ... nepárné číslo } spor
$2e$ ... párné číslo



je bipartitný





nie je bipartitný

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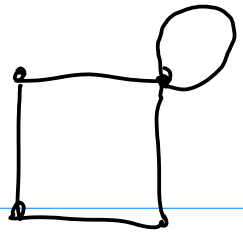
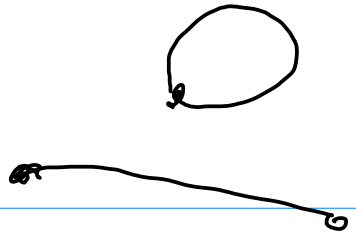
1 4 hrany 4 vrcholy stupně 1,2,3,4

$4 \cdot 2 = 8$

$1 + 2 + 3 + 4 = 10$





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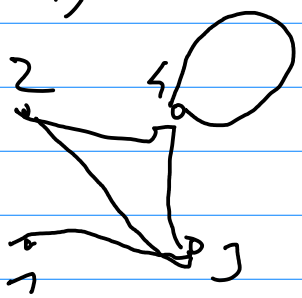
4 vrch, stupně 1, 2, 3, 4



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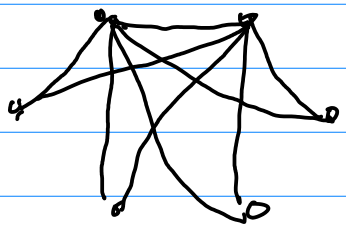
obyčejný graf 6 vrch. stupně 1, 2, 3, 4, 5, 5



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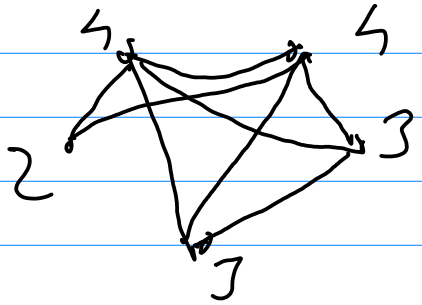
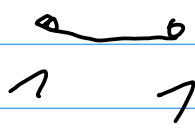
obyčejný graf 5 vrch. st. 2, 3, 3, 4, 4



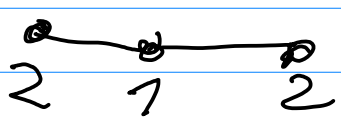
$r(G) = d(G)$

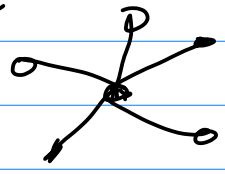


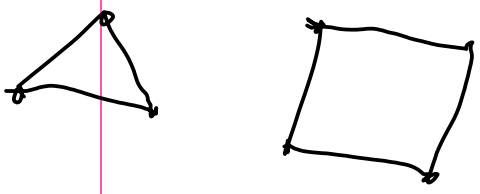
$d(G) = 2r(G)$

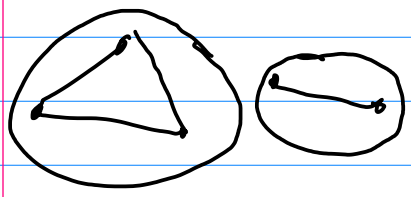
$r(G) = 1$

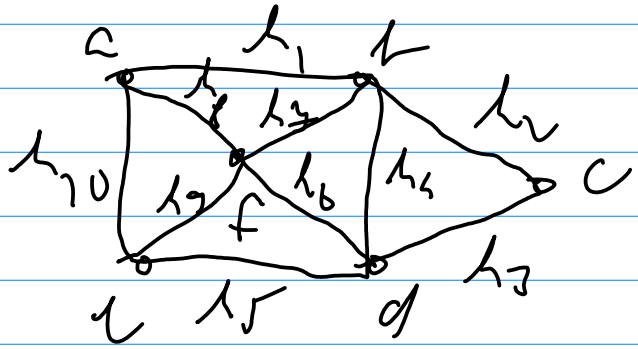
$d(G) = 2 = 2r(G)$







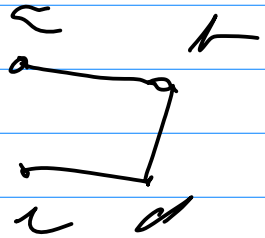




(a, h, b) (a, b)

otvorená (a, b, c)

uzavretá (b, c, d, b)



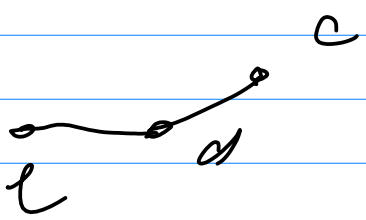
tiah (a, b)

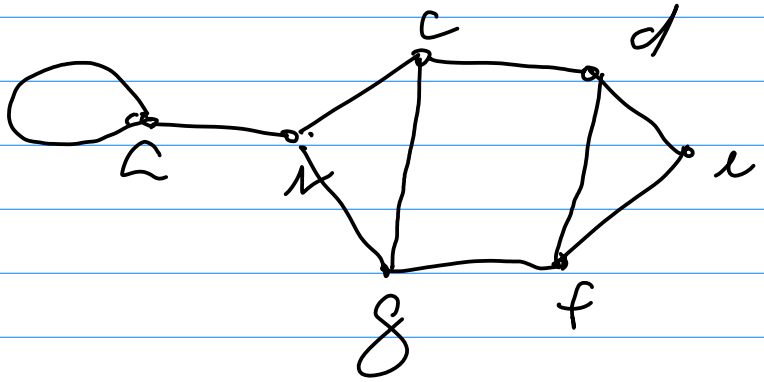
nie tiah (b, c, d, c)

cesta (a, b)

nie cesta (b, c, d, b)

kružnica (b, c, d)



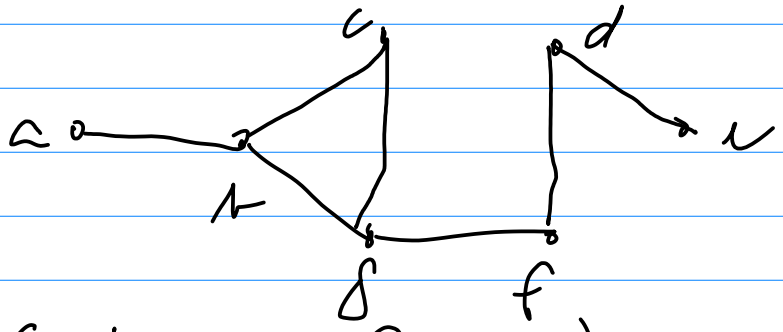


cesty $a \to e$

(a, b, c, d, e) (a, b, g, f, e)

(a, b, c, d, e, f) (a, b, c, g, f, e)

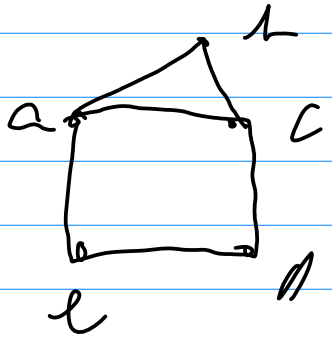
(a, b, c, d, e)
(c, b, c, g, f, e)
(a, b, g, h, e)
(c, b, g, g, f, d, e)
(a, b, g, h, e)
(a, b, g, c, d, e)
(a, b, g, c, d, f, e)



(a, b, c, g, f, d, e)

3

συνοδόμε (b, c)
(b, g)
(c, g)



(e, d, a, c, b)

(a, d, c, b, c)
(b, a, c, c)