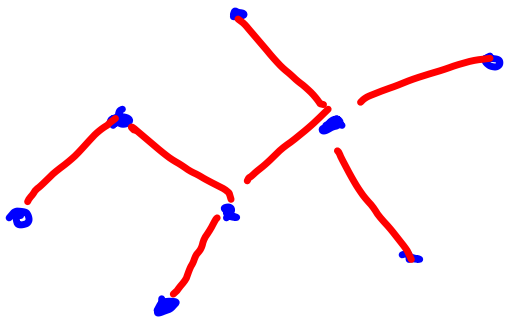
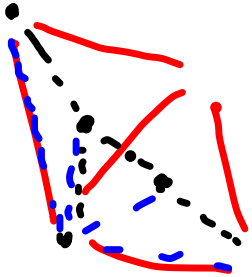
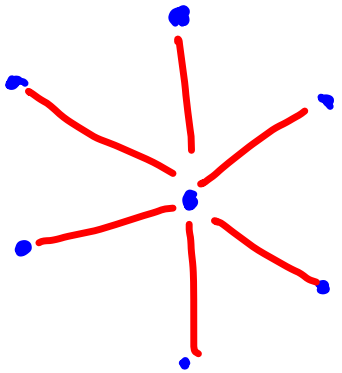
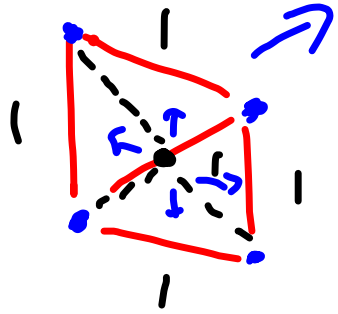




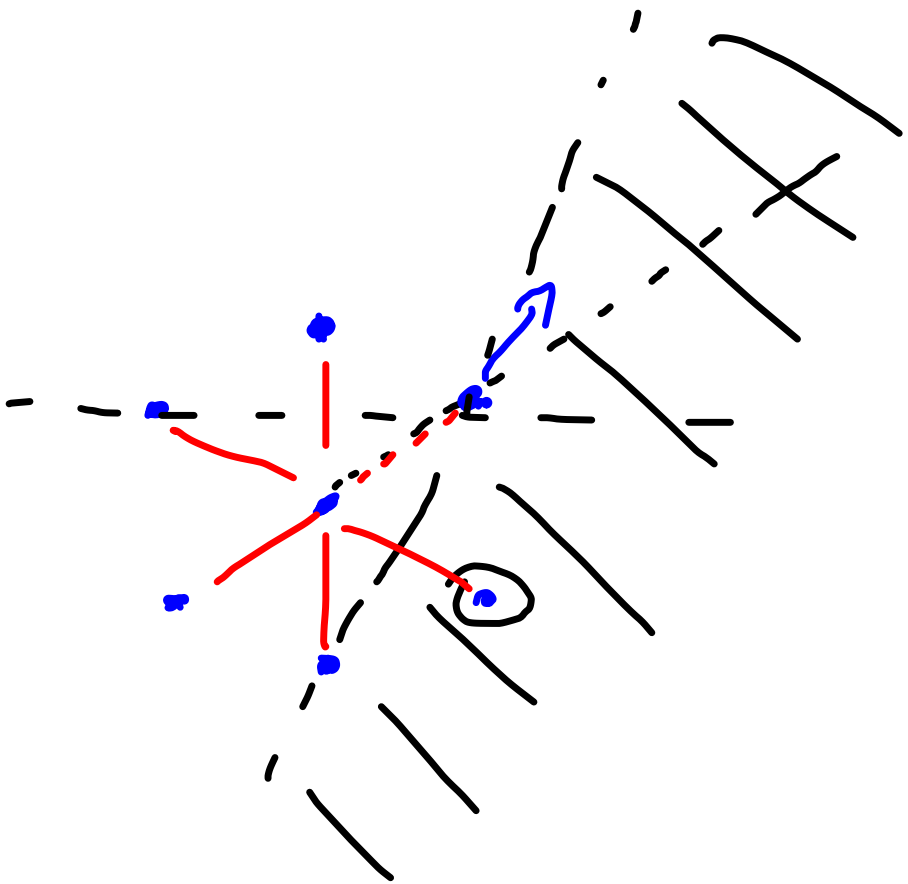


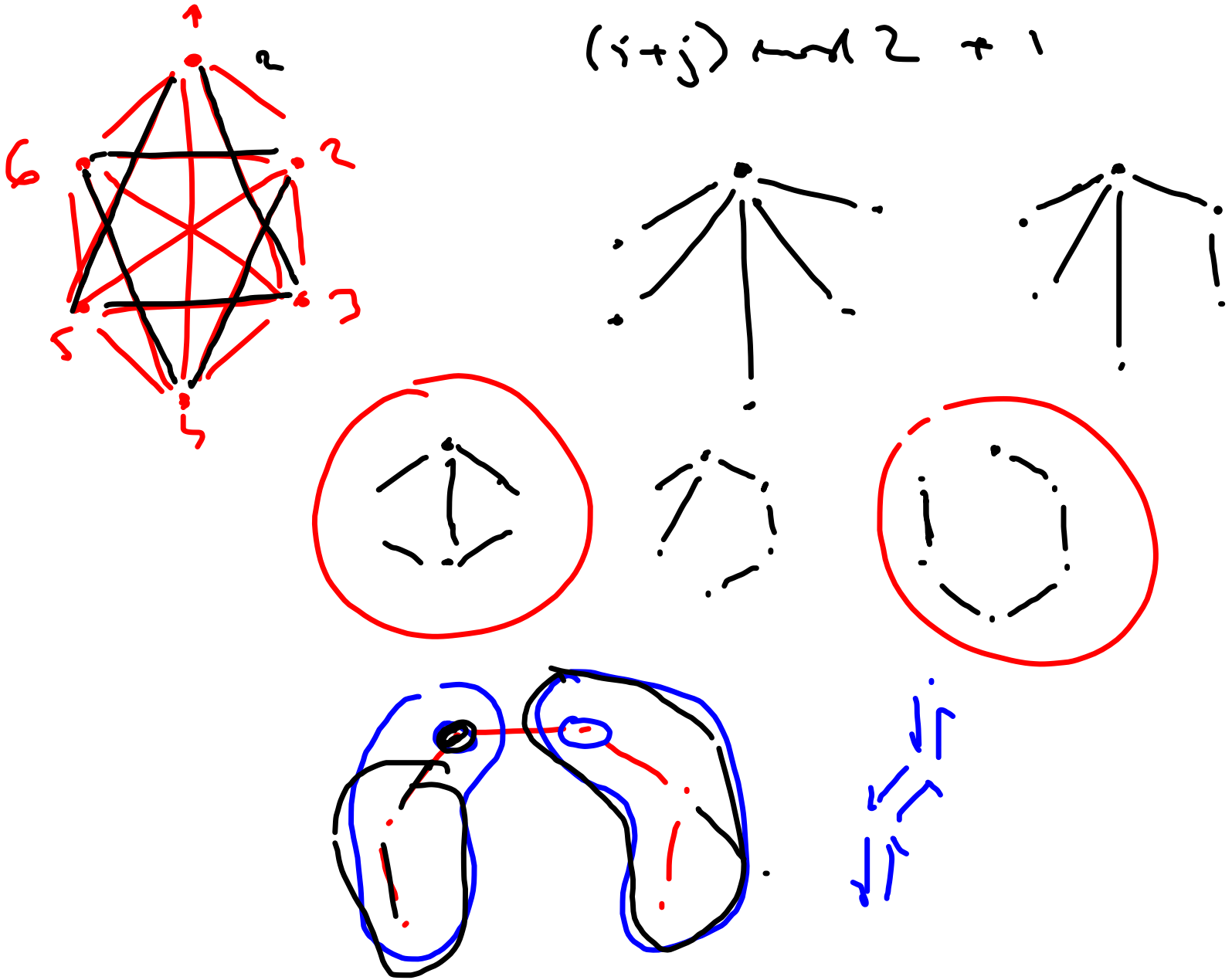


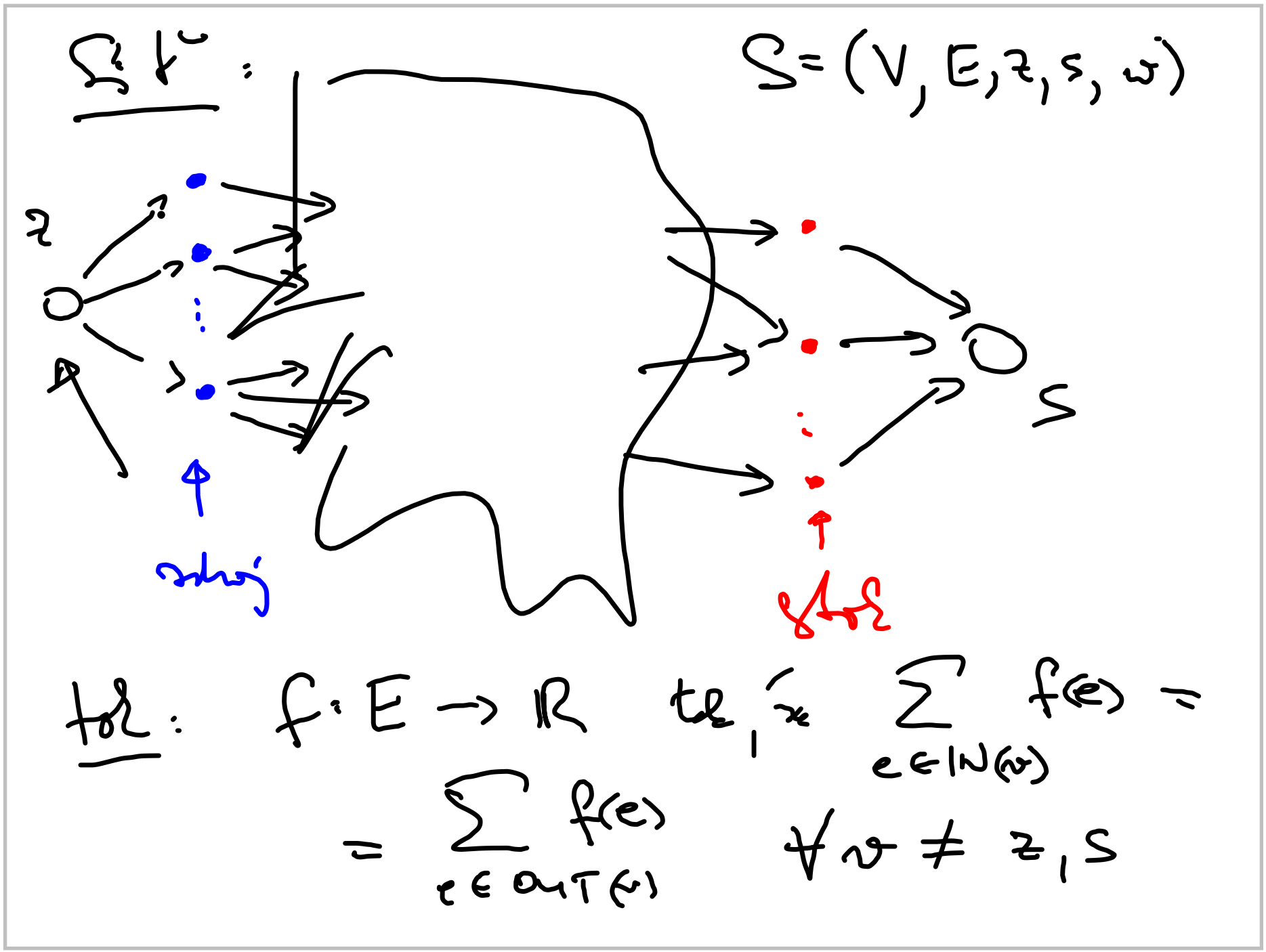
$\frac{1}{2} + \frac{\sqrt{3}}{2} + \frac{\sqrt{3}}{2} < 2.5$

$\frac{1}{2} + 1 + 1 = 2.5$

$\sqrt{3} + 1/2 \leq |k| \leq 3$



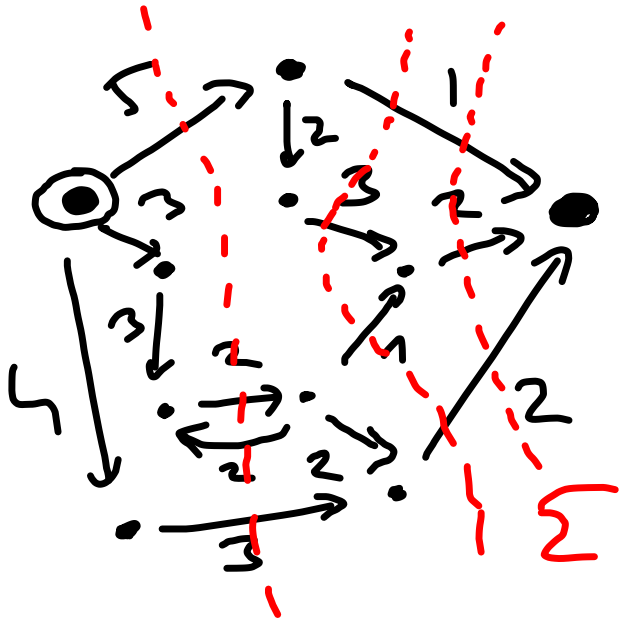

(i+j) mod 2 + 1
1
2
3
4
5
6



tok: $f : E \to \mathbb{R}$ tak, že $\sum_{e \in IN(v)} f(e) = \sum_{e \in OUT(v)} f(e)$ $\forall v \neq z, s$

velikost toku:

$$|f| = \sum_{e \in IN(s)} f(e) - \sum_{e \in OUT(z)} f(e)$$

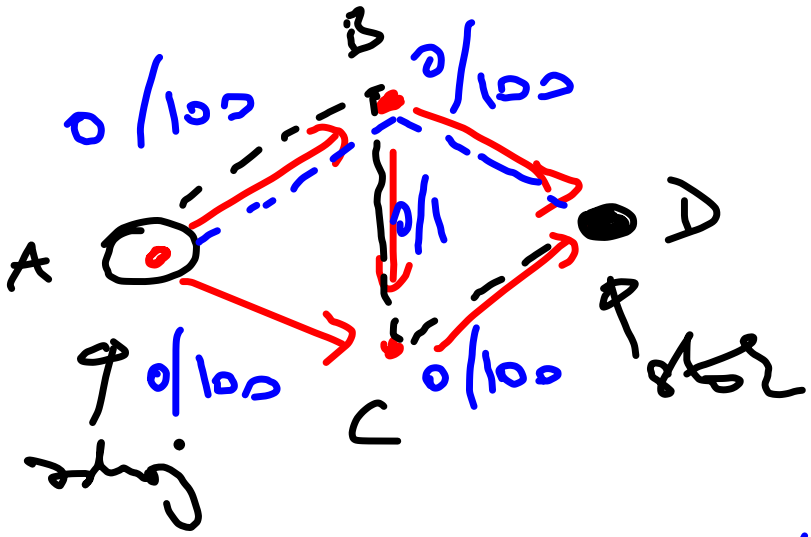


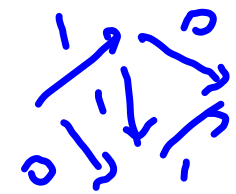
najít maximální tok

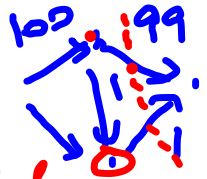
$\Sigma = 5$

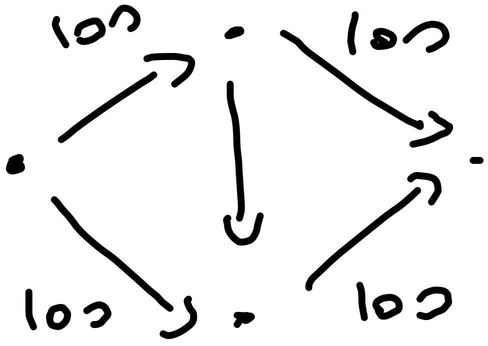
řez (tj. výběr hran) těsně nad max. cestu ze zdroje do stoku

FORD - FULKERSON


B
0/100
0/100
A
0/1
D
0/100
0/100
C


1
0
1
0
1


100
99
1



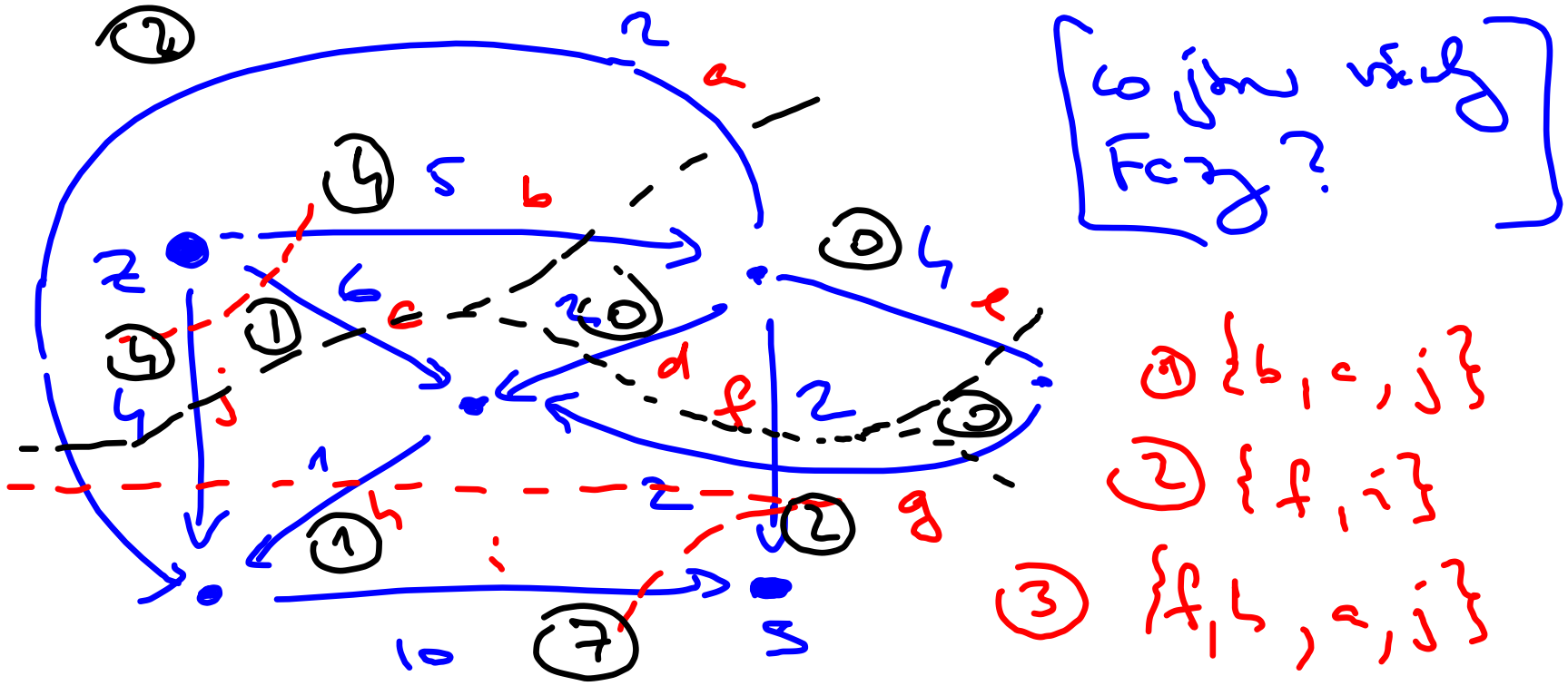
Algoritmus: ⓪ $f(e) = 0 \quad \forall e$

známe U množinu vrcholů do kterých vede nenasycená cesta

① dokud stok patří U

najdeme cestu a zvýšíme kapacitu všech jejích hran o minimální rezervu.

③ na výstupu dostaneme tok (+ řez)



[Co jsme viděli Fcy ?]

① {b, c, j}

② {f, i}

③ {f, h, a, j}

④ {j, c, d, f, e, a}

⑤ {j, c, d, f, g, a}

⑥ {b, j, h}

⑦ {b, i}

Maximální počet 9