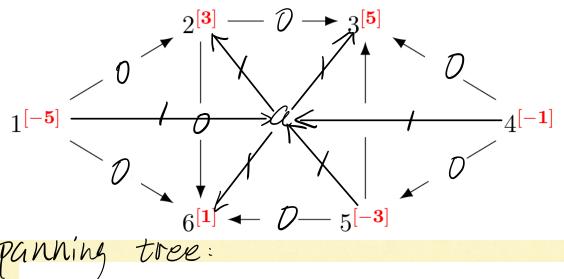
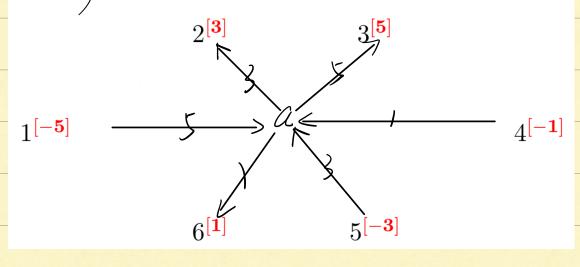


I: new network:





total cost: 18

Pick arc:

reduced cost of $\chi_{12} = C_{12} - C_{12} - C_{22} = -2$, $S \leq 3$

 χ_{16} -2 $8 \leq 1$.

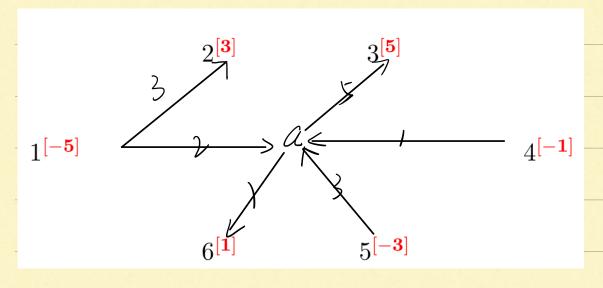
 χ_{s_3} -2 $S \leq 3$

X56 -2 S < 1

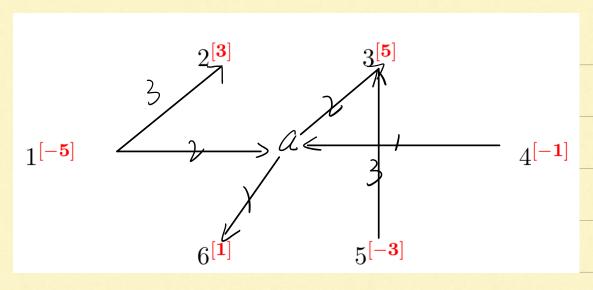
 χ_{43} $- \iota \quad \xi \leq 1$.

others

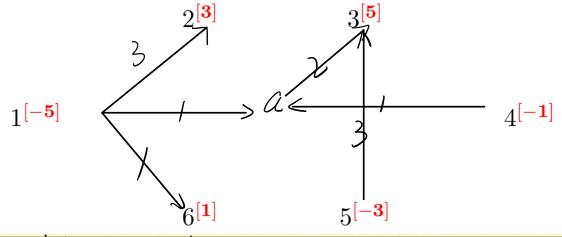
add X12. delete Xaz



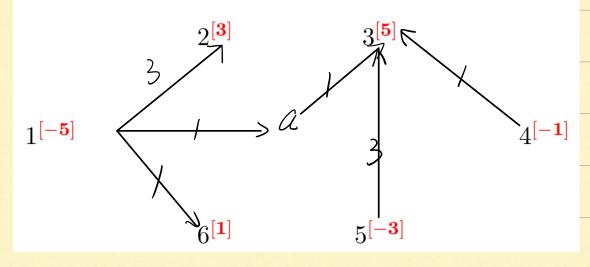
add X53 delete X5a



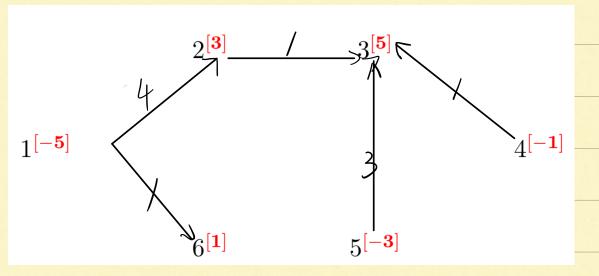
add X16, delete Xa6



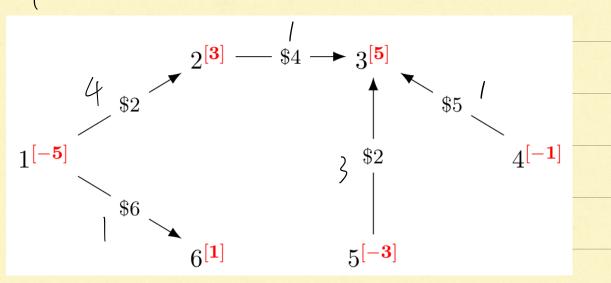
add X43 delete X4a



add X23 delete X1a, Xas

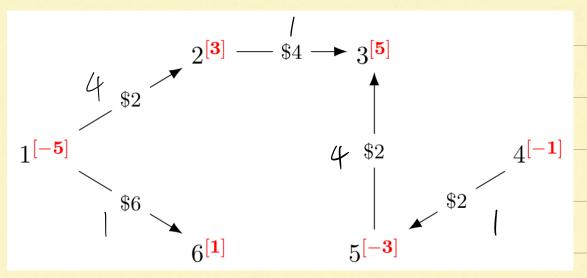


Phase two network:



pick arc: X_{45} 's reduced cost: 2+2-5=-1, $8 \le 1$ X_{56} 1-6+2+4-2=-1, $8 \le 1$ X_{126} 5+2-6=1

add X45 delete X43



add Xs6 delete X16

