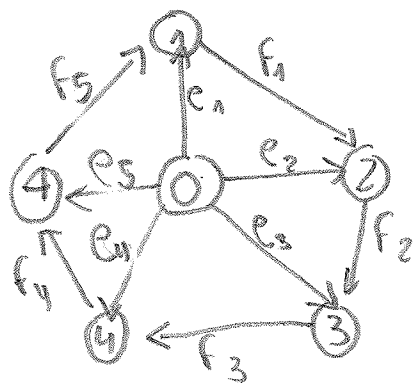
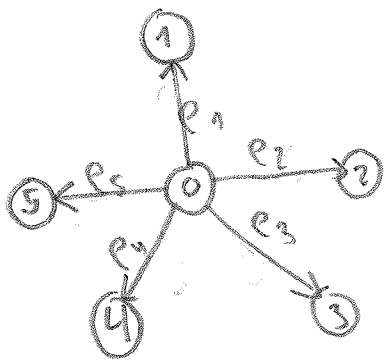


1. A)
good!



B) The star graph with n edges is also referred to as the bipartite graph $K_{1,n}$ because we can divide the vertices of the star graph in two sets in a way that every edge joins 2 points between the sets. This way would be the p vertex in one set and the remaining vertices in another set.

2) A i) $e_1 + f_1 - e_2$

$e_2 + f_2 - e_3$

$e_3 + f_3 - e_4$

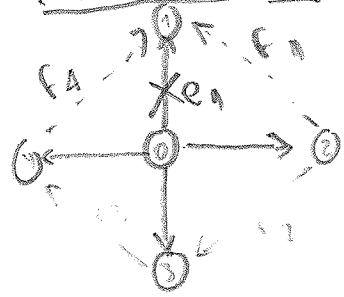
$e_4 + f_4 - e_1$

Basis cyclespace

good.

Orientation

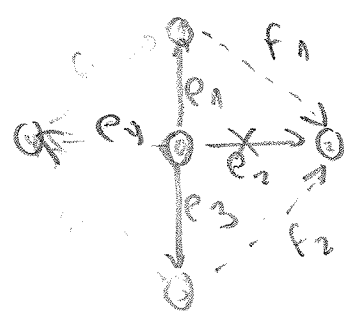
A ii)



Basis cutspace

$e_1 + f_4 - f_1$

well-illustrated!



$e_2 + f_1 - f_2$