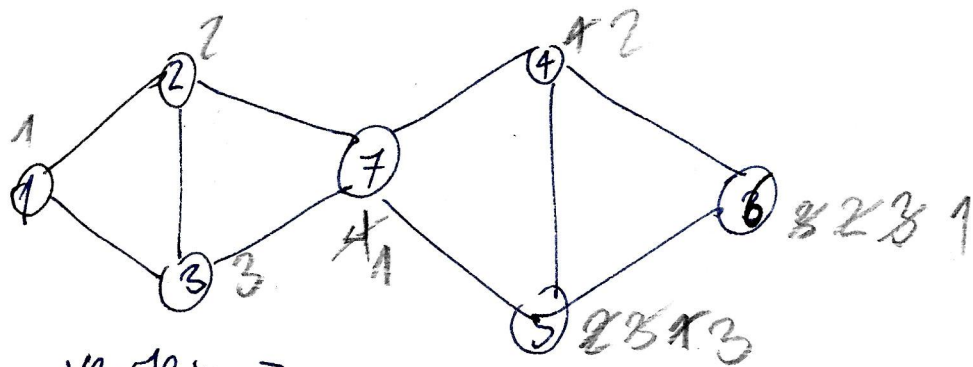




vertex $\rightarrow$

#	1	2	3	4	5	6	7	
1	1	2	3	1	2	3	4	$UB=4, \chi=8?$
1	1	2	3	1	2	X	X	
1	1	2	3	1	3	2	4	unsuccessful
1	1	2	3	1	X	X	X	
1	1	2	3	2	1	3	4	unsuccessful
1	1	2	3	2	4	X	X	
1	1	2	3	2	3	1	1	$UB=3, \chi=2?$
1	1	2	3	X	X	X	X	we can jump to 1st node
1	1	X	X	X	X	X	X	using $\chi=2$ colors

$\rightarrow 3$