(set of edges with node)



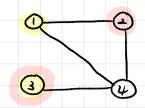
Assume |M| = 1, |V| = 2 IM = 2, 1 V = 4

i. the maximum of number of edges in M equals = |v|

then, |M|+|I| < |V| #

(b) True

(C)



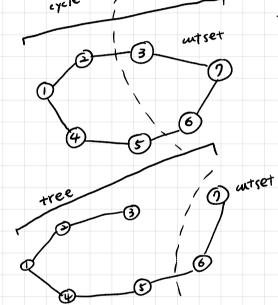
(set of nodes without edge)

independent set : {1,3}

{2,3}

the maximum of number of independent set is equal to = 11

For every edge in the intersection entering the cut, there will be a corresponding edge leaving the cut.



No, every network doesn't have an upward critical edge.

(d) Yes, but every edge in a minimal - cut have downward critical edges.