Ex 03

1)

a) 
$$E(x) = \sum_{i \in V} Y_i(x_i) + \sum_{ij \in E} Y_{ij}(x_i, x_j)$$
 $Y = \{0,1/2\}$ 
 $E = \{0$ 

d) unary Exposision of cost and indicator vector Mr. (0) y(0,90)=11+0 = 1.9 + B (=) Due to the restriction Eu(K)=1 the vector M(K)=(2) is not accepted pairwise vectors: for B>0 up= (1) because: \( \sum\_{\text{KE}} \sum\_{\text{LE}\_{\text{L}}} \mu(\text{K}, \text{L}) = 1 => Since Mu + Mp, this Solution does not leat to a valid state for X e) It depends on B. If B = 0 then up = (9) is one indicator vector that minimizes the cost-function. In that case, we have mi-up which proves consistency with valid x-States. (1) B = 0

