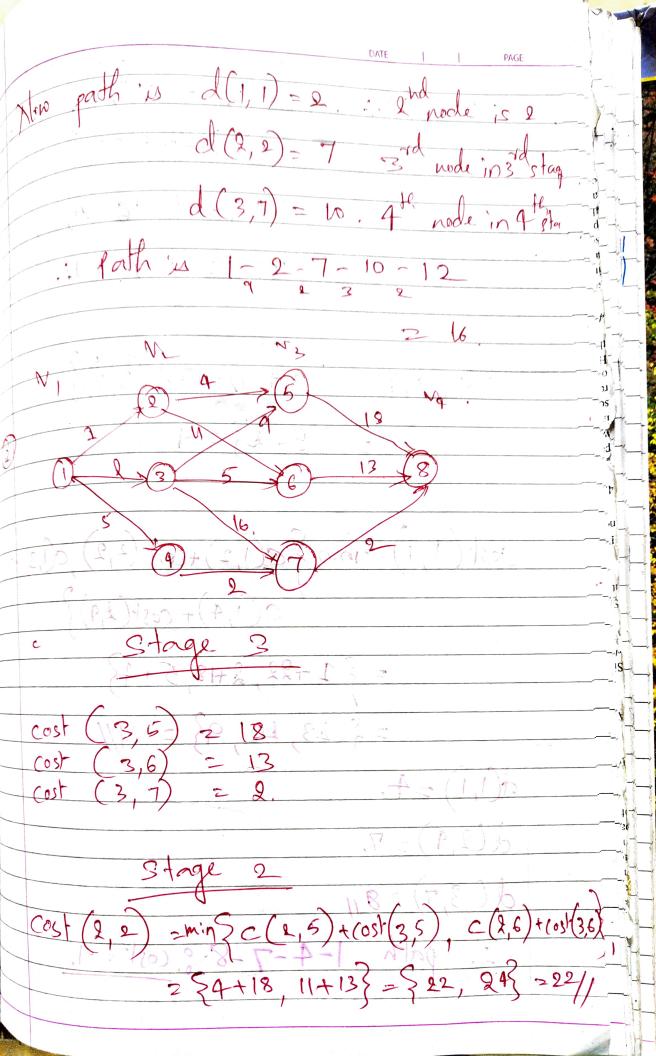
Moltistage Graph. DATE · Total k-2 decisions.
· S will be in tast lage
· t will be in bast stage

Cost (i, j) a represents distance grown ith node in ith stage to it! cost(i,j) = min > c(j,l) + cost (i+1,l) { cost (36) : find the minimum (ost path form node 6 in stage 3 to distind find the node braining direct edge from 6. they are (6,9) and (6,10) Now find minimum cost path grow 9th 12 and minimum cost path from 10 to 12

and origin the minimum one to cost (3,6). cost (4,9) = 4. Stage. (ost (AP, 10) = Q cost (4, 11) 3 lage. cost (3,6) = 5 (6,9) + (0st (4,9), c(6,10) + (0st (4,9)) = \$6+4,5+2} = 2 5 10,73 = 7/1 cost (3,7) = Sc (7,9) + cost (4,9), c(7,10) + (ast (1)0) 2 \$5+4,3+2 = 59,5 = 511 = {5+2, 6+5} = {9,11}= 7/1 Ind Stage.  $cos(2,2) = {c(2,6) + cos(3,6) + cost(2,7) + cost(3,7)}$ {4+7, 1+5, 1+9 = 7//



cost (2,8) = min { c(3,5) + (ost (3,5), c(3,6) + (ost (3,6))  $(3,7) + \cos(3,7)$ =min \$9+18, 5+13, 16+2} = min {27, 18, 18} = 18. cost (2,4) = 3 c(4,7)+cost (3,7)} 2 { 2+2}=4. cost-(1,1) =m:n { c(1,2)+(0)+(2,2), c(1,3)+(0))? C(1,4)+ cost(2,4)} = { 1+92, 2+18, 5+4} 2 { 23, 20, 9} = 9// 1200 E = (F, E) 120) i. path 1-4-7-8-0. cost=9.