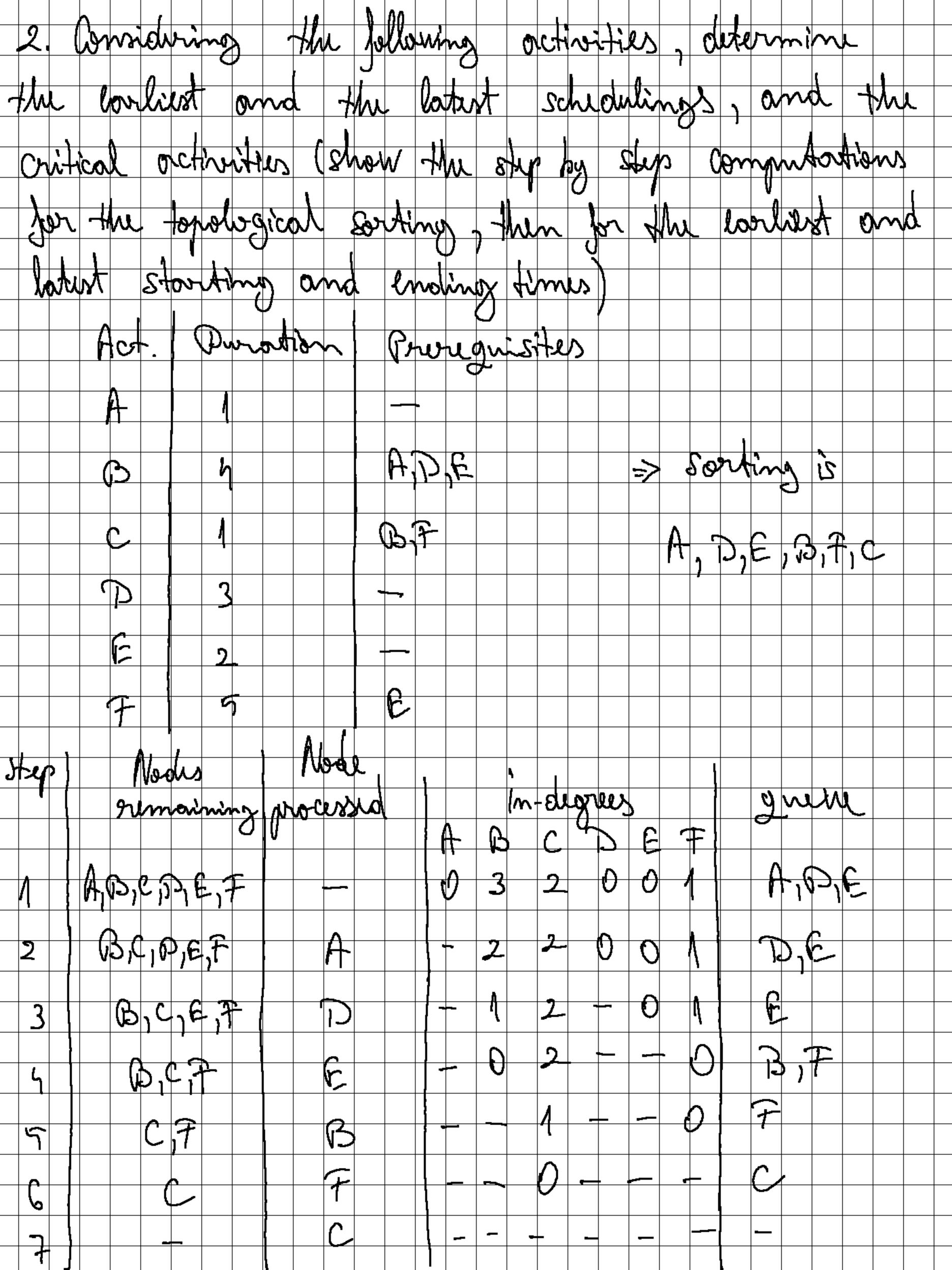
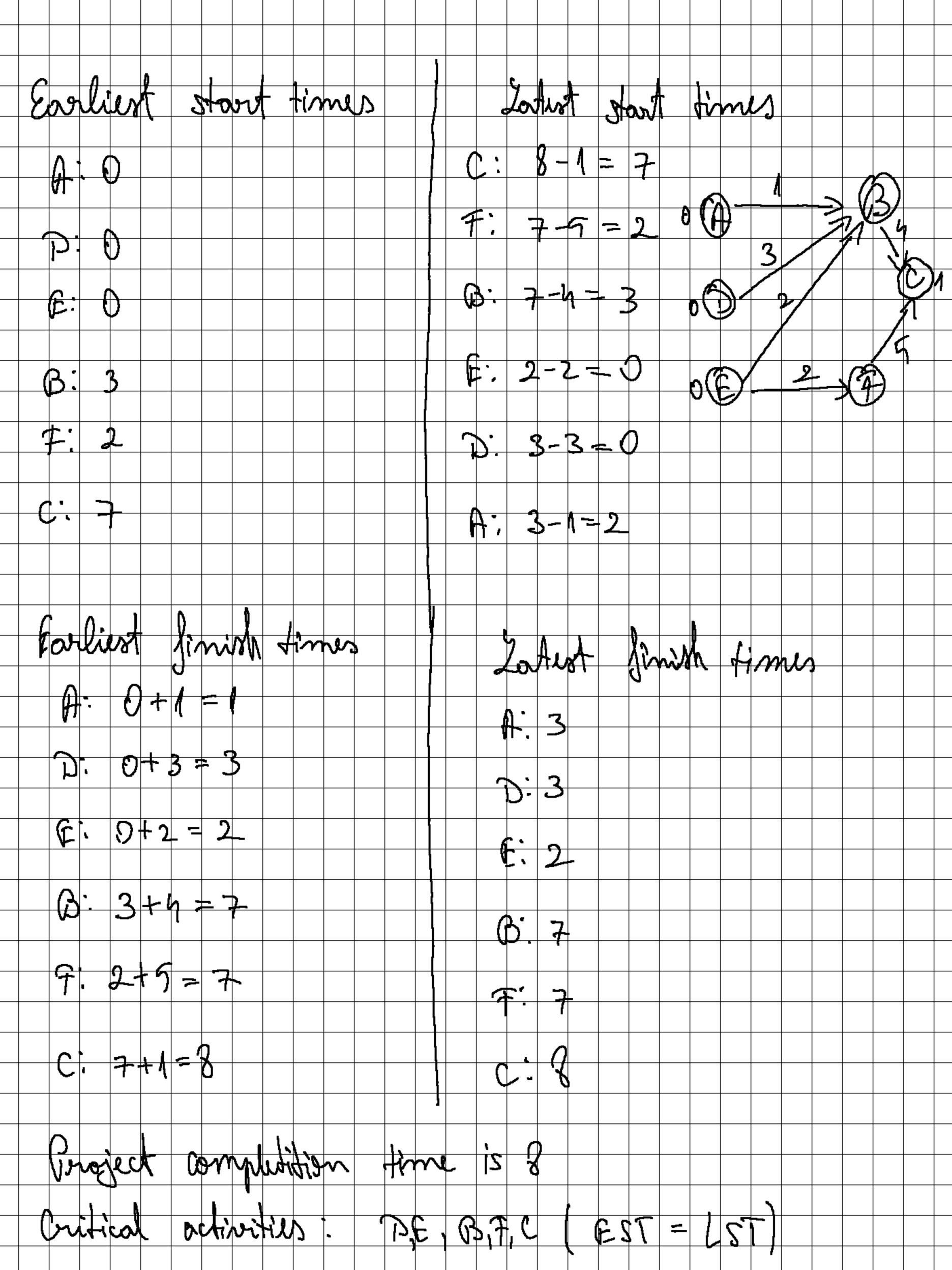
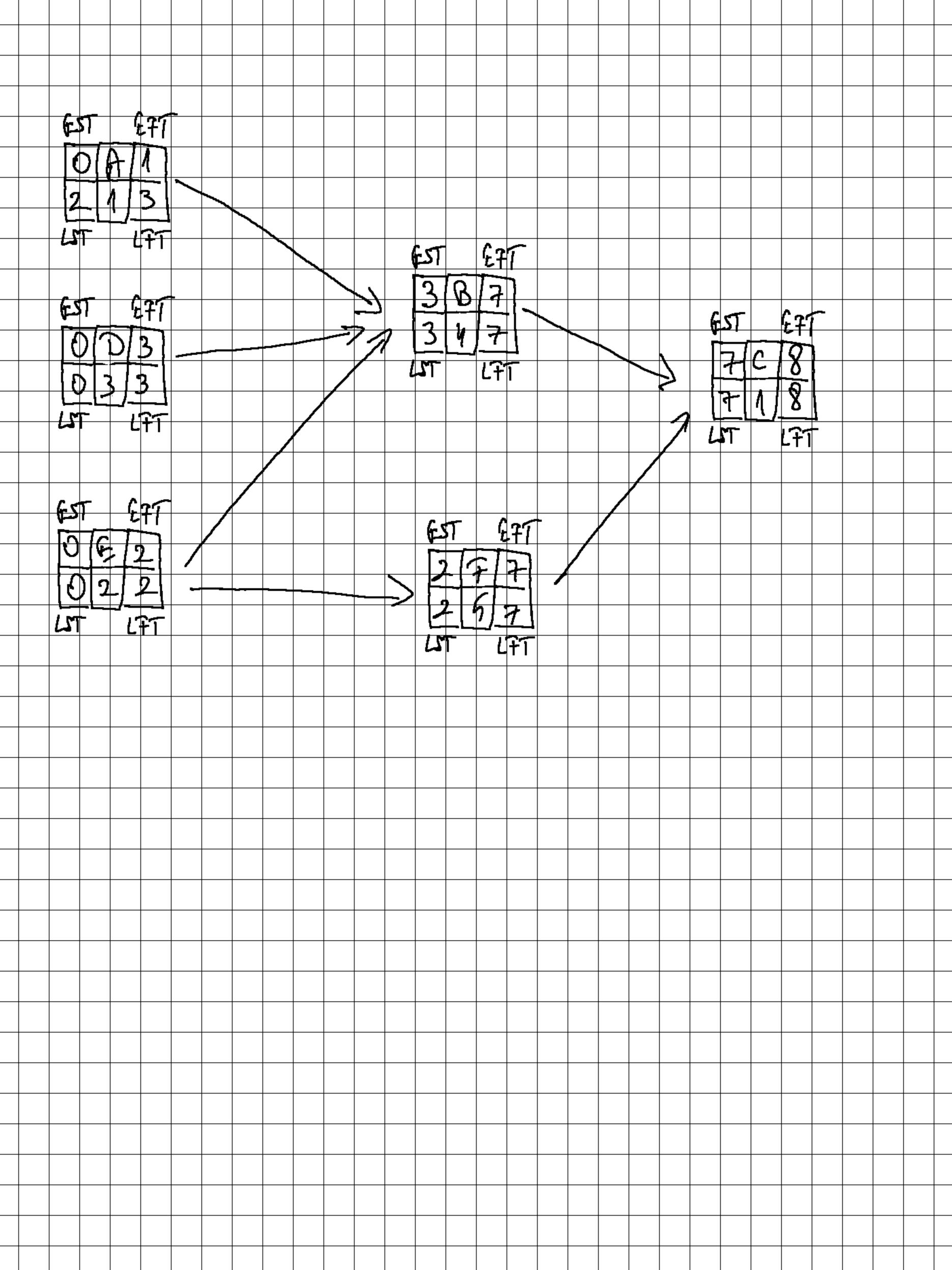
lowest with the diagraph below, find m Bijkstra alg. i nging rentex 10 restices im 7. w 12 (wxt13) treu) 2 (Cary) 2 5->7-1=>1 6->5 (CO TPS (O)) 4 8 3 7 6 ካ 4 5 5 3 6 7 8 \otimes Ø Ø 2, 8 Q 7 80 1 Ø ∞ 7 3, 12 5 16 5 Ø ካ 6 /**h** 12 h ή 7 3 7 8 3 4 2 θ 5 11 0 3 5 4 ኻ V ${\cal O}$ 4 8 5 Ð ٨٨ న్ 3 3 7 5

Juby. Exam 2018. mo. 3 diagraph below, find the #ML mimmum cost from all 10 h vertices vertex 5, wind algorithm in neverse. Dikstro 2>3->5 **ሳ-**>5 (Cost 3 5 Ø 2 2 90 X X \otimes Ø Ø ø Я (0 ว 8 3 20 2 И h 8 匒 90 Ø 5 Ø

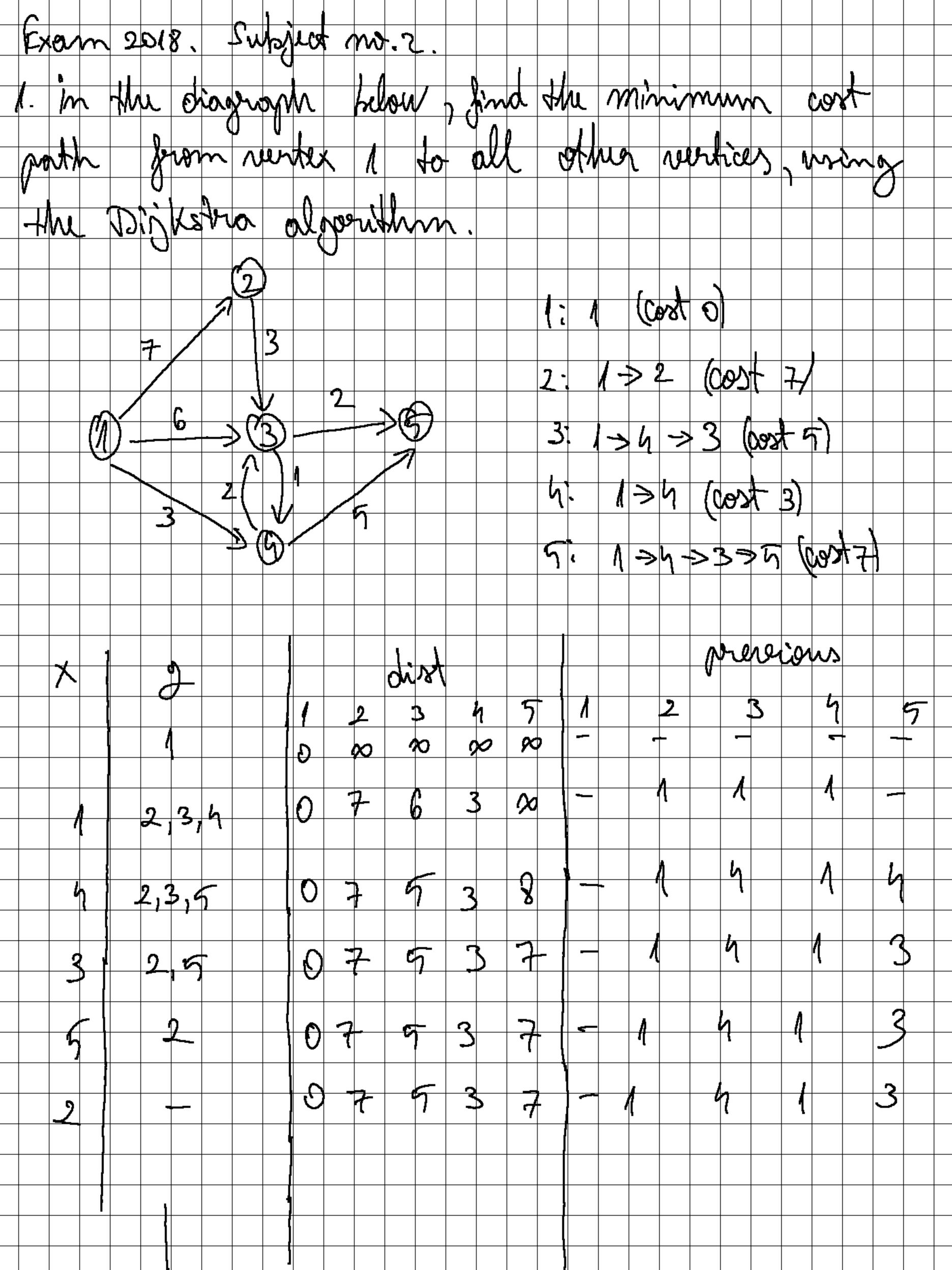


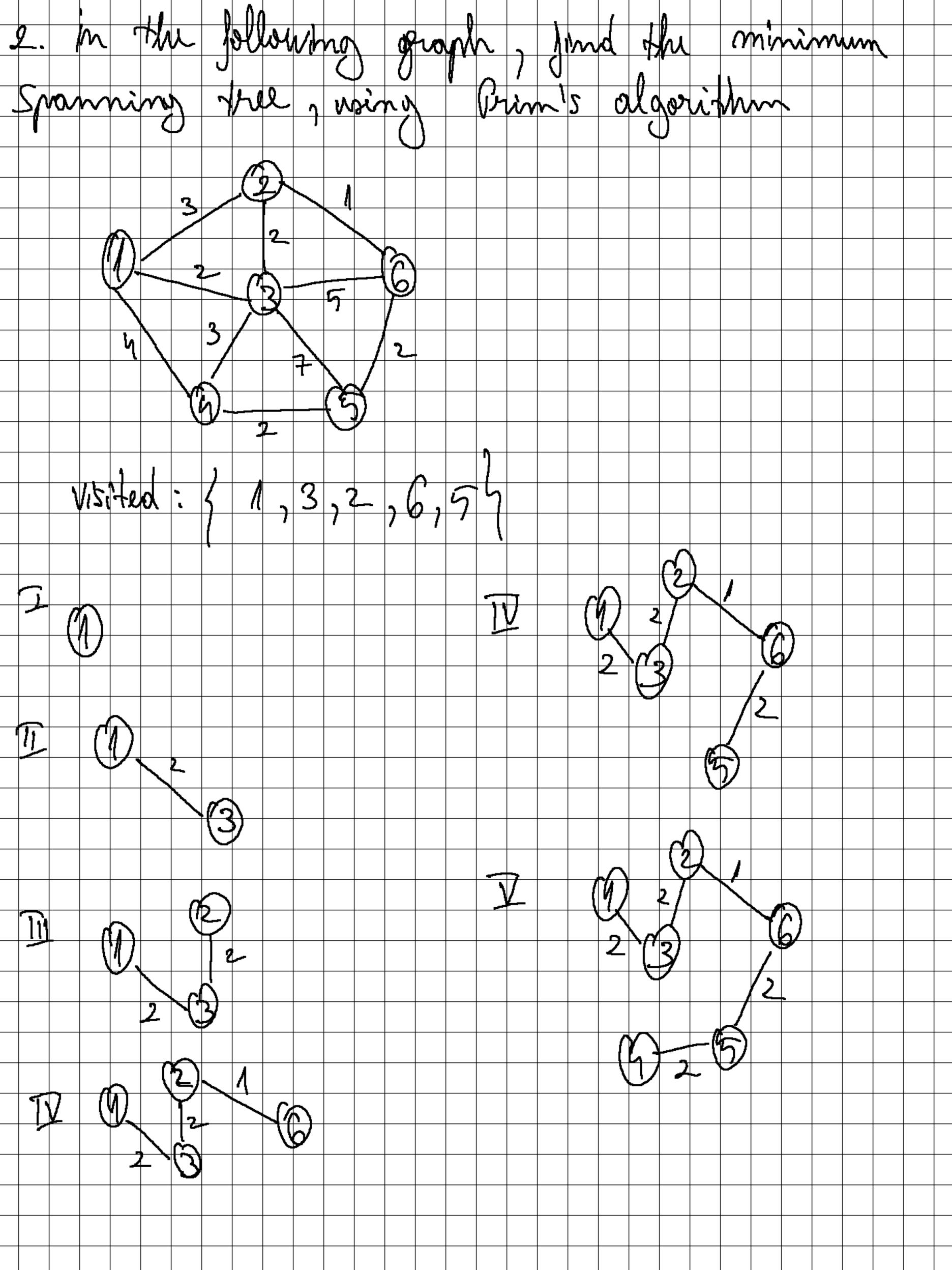




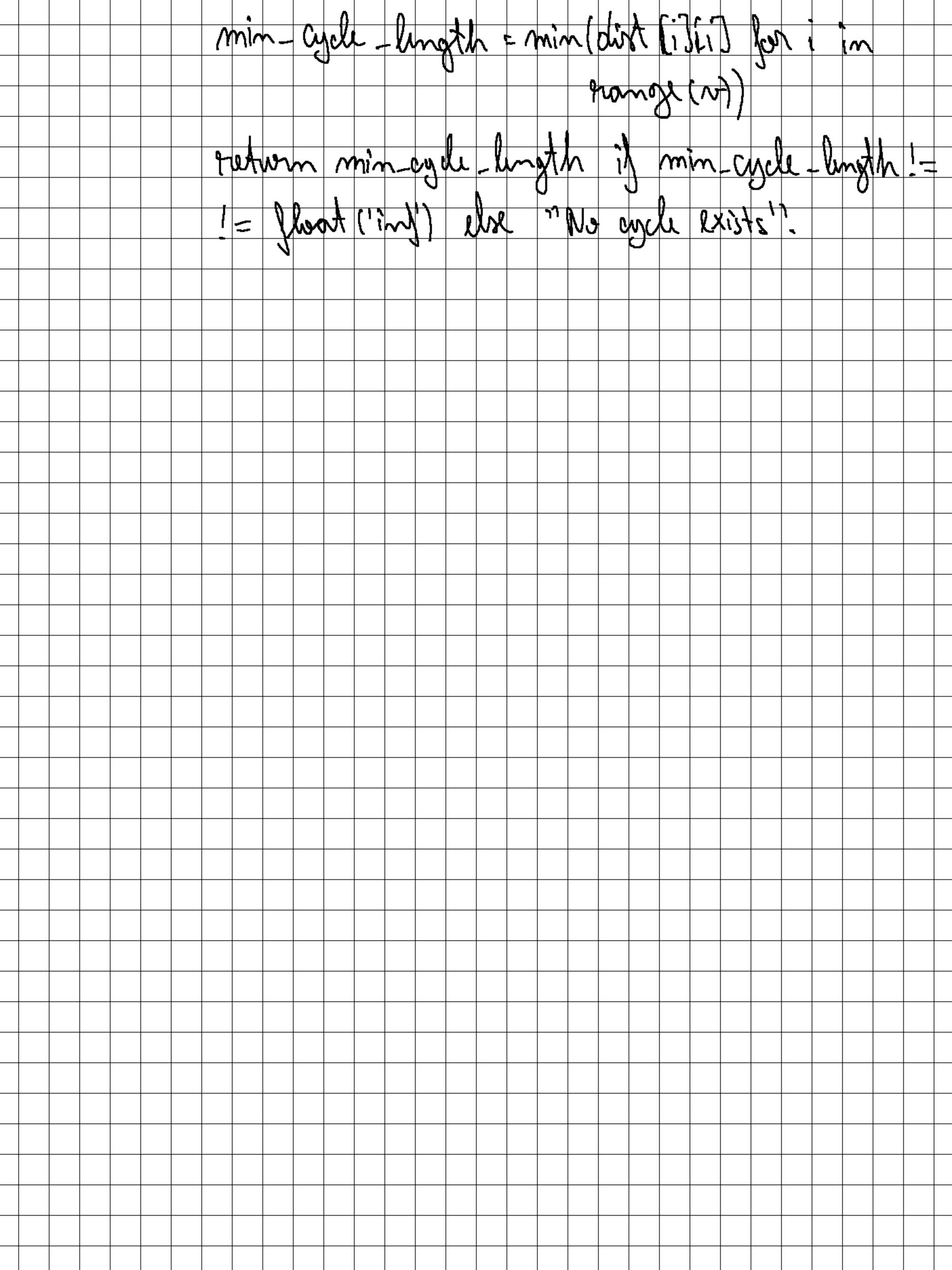
à polymonial time algorithm directed grouph and a vair 3 minds the number of distinct minimum length from 04 Count_shordust_rother of suprems ou = degue ((s)) Chistomer = default dist (lambaa: Most (in) 0=[2]smetsib count = difaultenet (int) 1=[2] Amon while 9: L= Q populyt v in swymens. 1) distance [10] = = { Look ('inj'): ovstona [v] = distance [v] +1 a. oppera (v) Mohamula == Chronica (1) +1. count [v] += count [v] return count (t)

Exam 2018. Subject the diagraph pelow, find the minimum grom all veertices to veertex the Wijkstro 9, wing algorithm in number. 2 4>5 (cost (cost 2 ካ 2 × _ **100** ∞ 5 炒 9 5 ∞ 2 8 (0 8 3 4 9 8 3 3 2 2 3 5 3 HV the The the Am W. Nurs. 04 Ore Φ7 Sample Same





on algerithm that, given a cycle of minimum Marson - boyall to [[Shoot (in!)] * : (v) : in in honge (v) 200m (i)[i] 1=0 dist (1)[1) = graph (1)[1) Dr Kin mange (v): in grange (vr). for jon mange (n). i) district > district + history [1][x]+dixf[i][i] tem = [[i][i] tem == j ond distribition (2) < < dix [1767]: Distrib + [x][i] + dist = [i][i] + distrib



Exom 2013 no.1. helow Mu m choezanh the minimum from other rections, wing surver 75/1/KS/1-100 myoruthm (COX) (Cosst 6) **→**3 **→**2 6. previous dvy X D 3 6 6 4 3 X × ∞ Ø p Ş 6 80 $\infty \infty$ দ h 5 0 80 卫 Ø 2,5 ∞ 120

