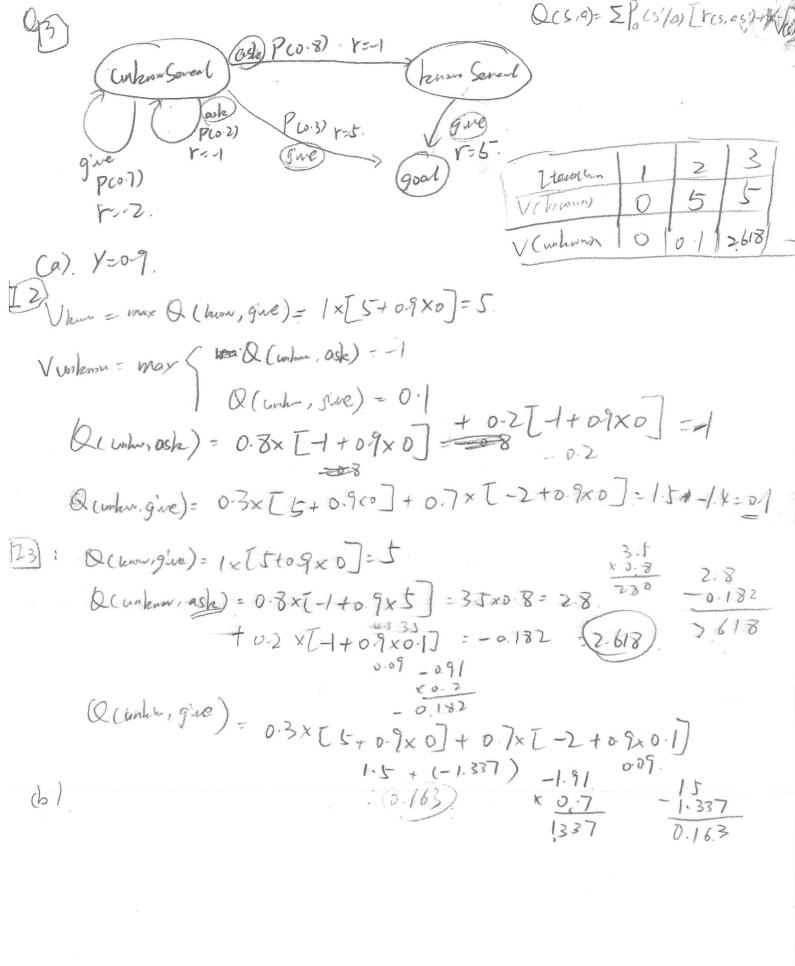
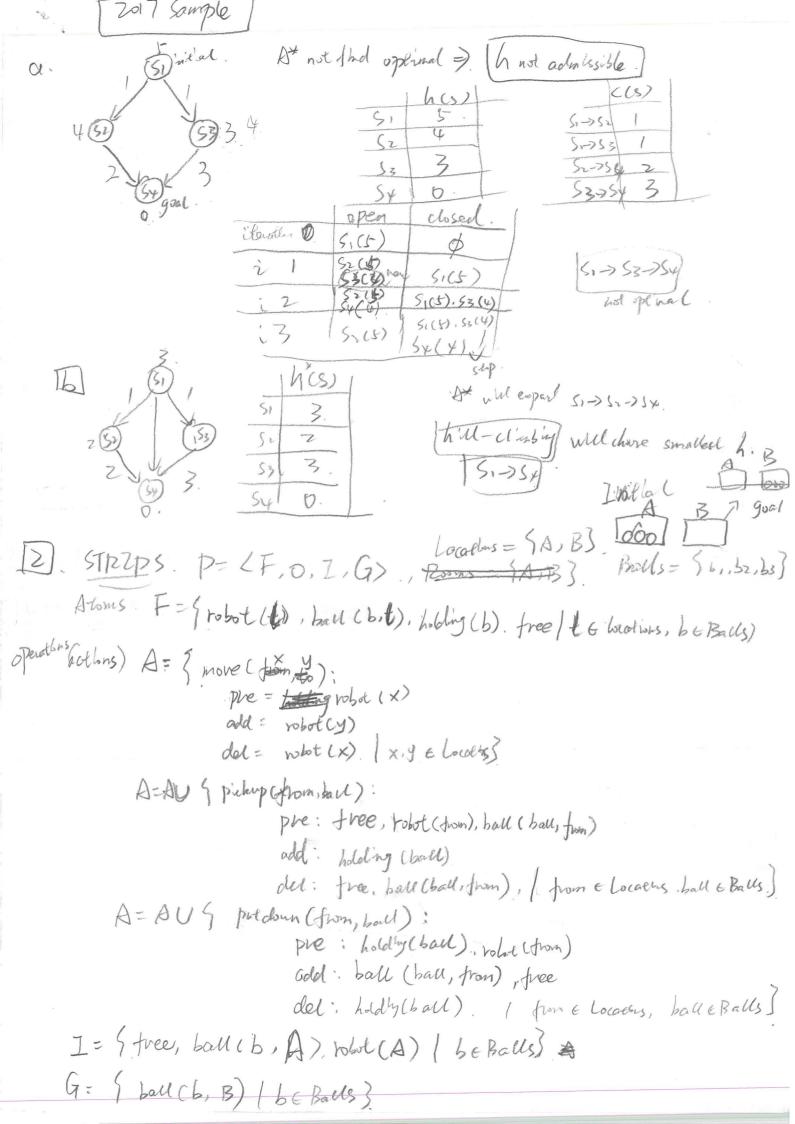
Sample exercises WAX = 9+ W.L A\* = 9+ h. (a) BFS: queve FI FO. UCS = 9 DTS: Slack: LIFO. UCS i priorly queue ordered by q. Berefort sent = h. minimum cost 9, maximum proving hospha goal: 54 ALS) & OLS') + h(S') closed iteetism SIC12) S2(11) S1(12) 51(12) Su (15) (3 (10) 5,(12) SILII). 51-352-755-754 SF-750P if the ≥ Prom= {A,B], Objects = 901,02] F= {robot (r), holding (0), diet (r, 0), tree | r & Rum, 0 € Object} A= Spik (O, AR): pre: free, statat (R,0), robot (R) add: holding (0), del: free, at (R,O). | O & Objects, RE Roms] I= {at(A,O), at(A,Oz)
robot(A) free} A-AUGMORE (ri, ri): pre: vobot (ri) odd: Johnt ( [7) del: nobel (ri) Iriiri & Roms & G = Sat (B, O), at(B102) A=AU ) dup (O, R): pre: holdby (0), robot (R) add: at (R,0), tree. del: holdy (0) 106 Objets, REROMS)

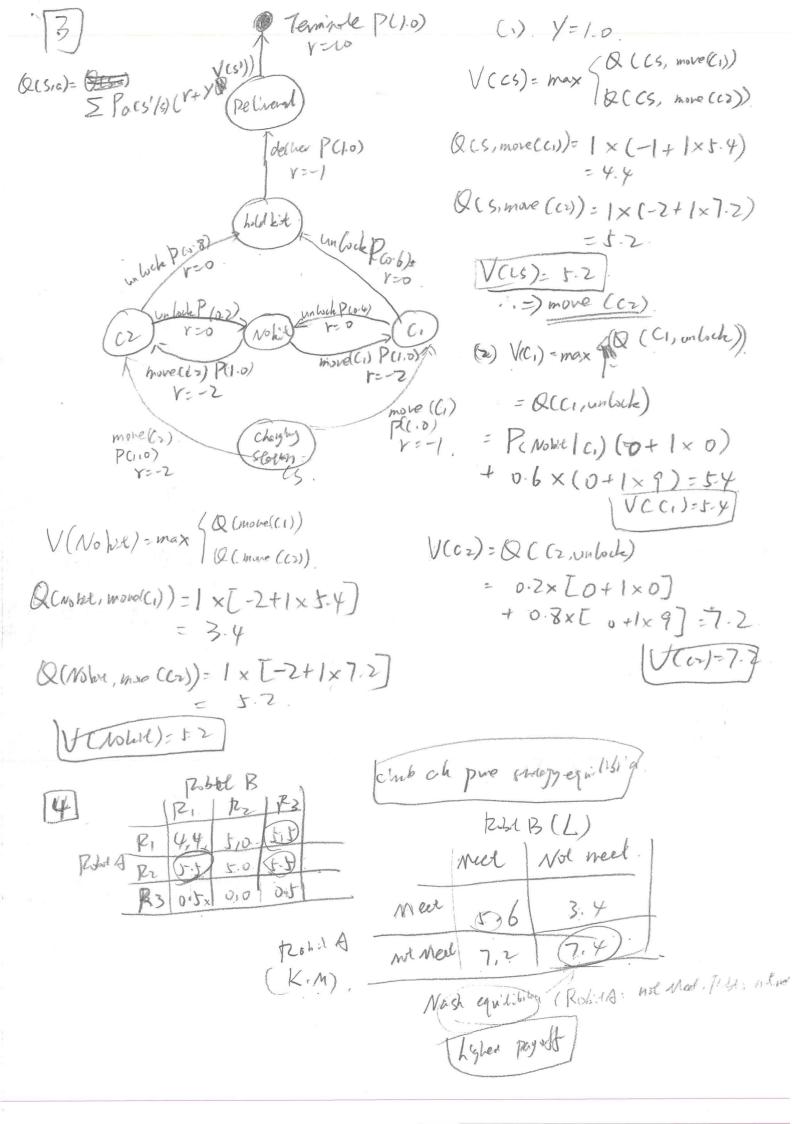


10= D 7 -0-5 Q(08,0) = Q(s-0)+2[r+ymax (5's,0')-Q(s,1) (0) 1- Seep Q-learning: Q(5,8)= 1.9+05×[-2+0.9× max Q(mm) -1.9] (unhan give = 1.9+05×258= 2.13 6.48 1- Ctor - (ADA) 1-Step-SAPSA Q(sia)=1.9+0.5x[-2+0.9x+9-1.9] = (0.805) -2.4 111 -1.095 (b) Q(s,a) = Q(s,a) + 2 [G(v) + y2 Q(s,a) - Q(s,a)] = 1.9 + 0.5[-3.8+0.8]×+9-+9] = 1-0.1805 -4.111 -2.0805 -1.09 + D.80 F GH = -2+ 0.9xc-2) = -2-18=-3.8 (E) Aux SARSO sate poly 1539 2 3 Course -0.361 3.8 +0.361 4.161 20807 Y= - 1. E(L)= (+x+2(1-x)= 2x+2. Mixed Nash eqb. E(R)= X+ 4(1-x)=-3x+4. 「playa A: テu.fD), 0.1805 ECL)= ECR) 2x+2=-3x+4 ( playa 2: 2L, E/R) }

C1.3) (b). 12 For A: D B: R 0,2 3,1 B(1.37). 1,3 (Nasheau) 1,2 B(O) A out. B. food and gamp (2,0) OUT. (113) V(s)=010 N=100 Jush. 8 -1+ XXZ V=0.6x (++17)=9.6 + 0.2x 8 (-1+8) +1. to.2x(-1+11) 16 10.6



scale (tention (robot (A)) post (B) (boll (b), A) (boll (b), B) (boll (b), A) (boll (b), A) (boll (b), B) (boll (b), B) (boll (b), B) (boll (b)) (boll (b)) (boll (b)) move (from to) pidemp (from. ball) Helebra (Joniball) robot (B) = move (A,B) holding chy)= plukup( \* A, bi)o bad (b, 18)= piwhdown (B, b) 0 0 17 pre: modia) 15 ppe = free imbot (A), hall (b), A) (b) (had (b)) - phup (A, b)) Ly pre = holy (b), mbolco) 3/2 8 polared plan = > pluhy (A, b), pluhup (A, b), pluhup (A, b), move (A, B) 1 B 8 3/2 It = I free ball (b, A) | whole (A) | beloads } 1 (cold) = 3+3+5=9 (g) > boll (b, B) 1 66 hards 5 n(mx) - 2. bs (ball(b), B)) = putobun (B, b) by chade chas B) = puldon (13, bis) bs ( habit (B) ) = move ( A) B) 3/2 8 1) pre= tree, wood(A), Lad (Im/A) 一でかれてリ bs doesn't change for hack max Gope = holdy (h), police(B) Type . Indeal (A) suppose by I to The = holding (bi), poblice) 0



RA. (7.4)

most meet

RB(5.6)

RB(5.6)

meet not need

meet 7,2

7,2

7,9

PA PB.