سؤال ١:

 $V_{R}^{(s)} \leftarrow (1-\alpha)V^{(s)} + \alpha \left[R(s)\pi(s),s'\right) + \gamma V^{(s')}$ 

 $V(A) \leftarrow 0/9(0) + 0/1[-r+1(0)] = -0/r$   $V(B) \leftarrow 0/9(0) + 0/1[r+1(-0/r)] = 0/rV$   $V(A) \leftarrow 0/9(-0/r) + 0/1[-r+1(-0/r)] = -0/V$ 

V(A) = 019(-01V) +011[-1+1(01TV)]=-0/194 V(B) = 019(01TV) +011[1+1(0)]=01644

 $Q_{1}(A_{2}1) = a_{1}A_{1}(Q_{1}(A_{2}1)) + a_{1}(-3 + maxQ(B)) - (1)$ 

Q(B,1) = 0/9 (Q(B,1)) +0/1 (4+0) = 0/4

 $Q(B_{2}2) = 019(0) + 011(-4+0) = -014$   $Q_{2}(B_{2}1) = 019(-017) + 011(-3+014) = -(01714+0174) = -0107$   $Q(B_{2}2) = 019(0) + 011(1+0) = 01$ 

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 $\frac{y=01}{2} \qquad \qquad Q(A^{2} \rightarrow) = \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} (2+y \max_{a} Q(B_{2}a)) : Y \cup \frac{1}{2} (1)$  Q talues = 1  $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} (2+y \max_{a} Q(B_{2}a)) : Y \cup \frac{1}{2} (1)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} (2+y \max_{a} Q(B_{2}a)) : Y \cup \frac{1}{2} (1)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow)$   $= -\frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow) + \frac{1}{2} Q(A_{2} \rightarrow)$   $= -\frac{1}{2} Q(A_{2}$ 

a = 0/0 =  $\frac{1}{2}(1) + \frac{1}{2}(2 + 9 \times (-2)) = 0 + 0 \times 0 = 0 / 1$ 

Q(C,e) = /2Q(C,e) + /2(2+0/V(-2)) = 0/A

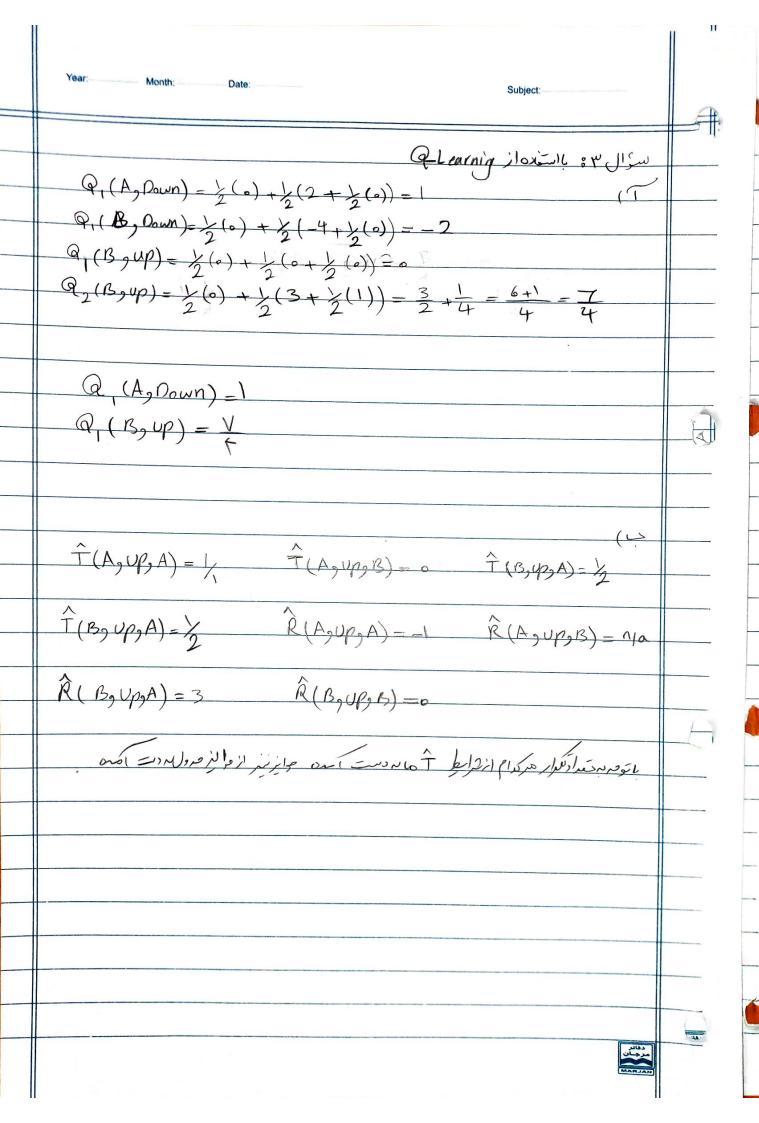
Q,(B,+)=/2Q(B,+)+/2(-2+01V(2))=010-017=01

Q(A, ) = 2 Q(A, ) + 2 (4+014(0)) = 2,4

Q(A, )= 214

Q(B)-)=0/Y

مروع) ماني عنان ما توه بر سامه الا مان الله مي دارت ال الا بردارت و ال عبر مي مراب و ال عبر مي مراب و ال عبر مي مرك فراسم و در



R=-1 (4 U)

 $V^{n}(15) = E_{n} \left\{ Y_{t+1} + V^{n}(s+et) \mid s_{t}=5 \right\}$ 

 $= -1 + \frac{1}{4}\sqrt{(12)} + \frac{1}{4}\sqrt{(13)} + \frac{1}{4}\sqrt{(14)} + \frac{1}{4}\sqrt{(15)}$ 

 $= -1 - \frac{1}{4} \times \frac{22}{4} \times \frac{1}{4} \times \frac{20}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{15}$ 

 $\frac{3}{4}V^{"}(15) = 15 \rightarrow V^{"}(15) = 20$ 

