Q1)

N	D(A) P(A)	D(B) P(B)	D(C) P(C)	D(D) P(D)	D(F) P(F)	D(G) P(G)	D(H) P(H)
E	∞,-	∞,-	3,E	2,E	2,E	∞,-	∞,-
E,D	∞,-	11,D	3,E		2,E	3,D	∞,-
E,D,F	∞,-	11,D	3,E			3,D	∞,-
E,D,F,C	7,C	5,C				3,D	∞,-
E,D,F,C,G	7,C	5,C					16,G
E,D,F,C,G,B	6,B						7,B
E,D,F,C,G,B,A							7,B
E,D,F,C,G,B,A,H							

The Shortest Path from E to

A: ECBA -6

B: ECB -5

C: EC -3

D: ED -2

F: EF -2

G: EDG -3

H: ECBH -7

(Q2)

Destination	Distance	Route
Net 6	10	Gate J
Net 24	5	Gate J
Net 43	5	Gate J

For destination Net 6,

It updates that a new route is setup via gateway J.

For destination Net 24,

It updates that a shorter distance resulting from routing via gateway J.

For destination Net 43.,

It updates that if passing via gateway J,

It will take a longer route.

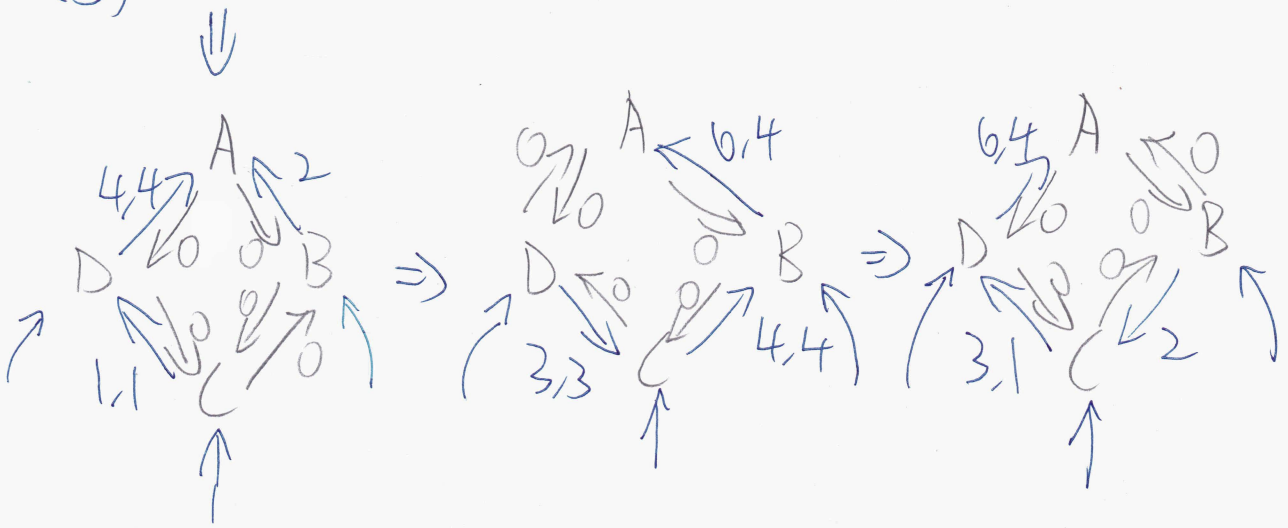
(Q3)

I) 7
II) 7
III) ∞
IV) ∞
V) ∞
VI) 5
VII) ∞
VIII) ∞
IX) A - B - D - C
X) ∞
XI) 11
XII) D - A - B - D - C
XIII) 14

(Q4)

1. y updates
   vec y : (6, 0, 17)
2. x updates
   vec x : (0, 6, 23)
3. y updates
   vec y : (6, 0, 29)
4. x updates
   vec x : (0, 6, 35)
5. y updates
   vec y : (6, 0, 41)
6. x updates
   vec x : (0, 6, 37)
7. y updates
   vec y : (6, 0, 43)
8. x updates
   vec x : (0, 6, 37)

(Q5)



(Q6)

i) False,
B gets "revenue" for routing ABX since X is B's customers.

ii) True,
W gets no "revenue" for routing AC since none of AC are W's customers.

iii) True,
A gets no "revenue" for routing CABX since none of CABX are A's customers

iv) False,
A gets "revenue" for routing WABX since W is A's customers.