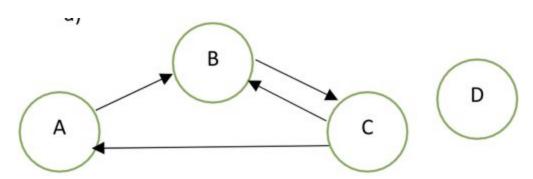
Q1 (1 point)

- Similarities: (1/2 point) *they get the whole point if they mention at least two*
 - o Both methods for link analysis
 - o Both calculate scores based on hyperlinks only, instead of content
 - o Both affected by link farm
- Differences: (1/2 point)
 - Pagerank is a global measure independent of query, HITS is applied after matching with query
 - Pagerank has one score for each query, HITS has hubs and authorities scores which are calculated separately

Q2 (4 points)

a) (0.5 point)

if they don't include D, they will get 0.25

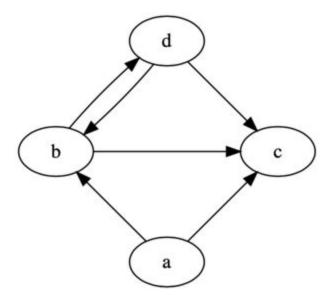


b) (1.5 points)

	А	В	С	D
А	0.025	0.925	0.025	0.025
В	0.025	0.025	0.925	0.025
С	0.475	0.475	0.025	0.025
D	0.25	0.25	0.25	0.25

Q3 (2 points)

a) (0.5 point)



b) (0.5 point)

	Hub	Auth
Α	1	1
В	1	1
С	1	1
D	1	1

c) (1 point)

First iteration (0.5 point)

	Hub	Auth
A	2	0
В	2	2
С	0	3
D	2	1

Second iteration (0.5 point)

	Hub	Auth
A	5	0
В	4	4
С	0	6
D	5	2