

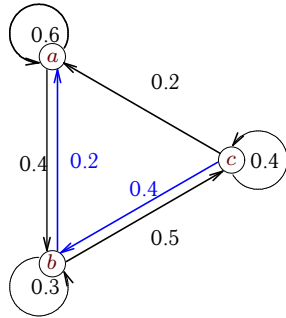
## Марковские цепи (2)

Дан граф вероятностей перехода цепи Маркова. Известно состояние  $\vec{p}_1$  цепи после одного шага. Найти начальное распределение цепи  $\vec{p}_0$ .

**Задача i-23.1.**

1

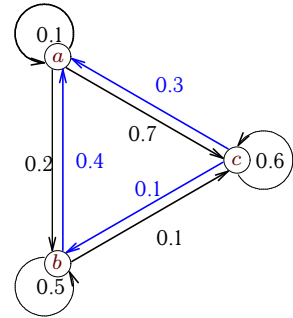
$$\vec{p}_1 = \begin{vmatrix} 0.32 \\ 0.37 \\ 0.31 \end{vmatrix}$$



**Задача i-23.2.**

1

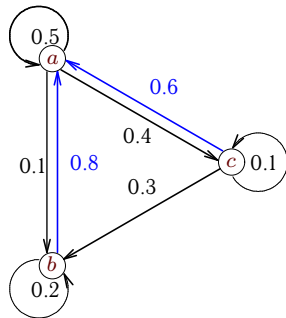
$$\vec{p}_1 = \begin{vmatrix} 0.26 \\ 0.12 \\ 0.62 \end{vmatrix}$$



**Задача i-23.3.**

1

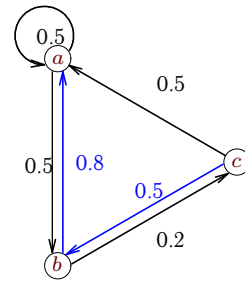
$$\vec{p}_1 = \begin{vmatrix} 0.67 \\ 0.19 \\ 0.14 \end{vmatrix}$$



**Задача i-23.4.**

1

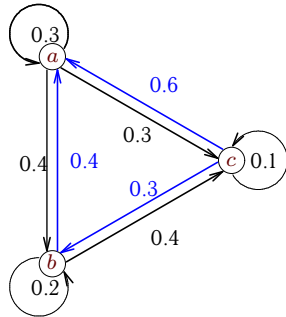
$$\vec{p}_1 = \begin{vmatrix} 0.5 \\ 0.5 \\ 0 \end{vmatrix}$$



**Задача i-23.5.**

1

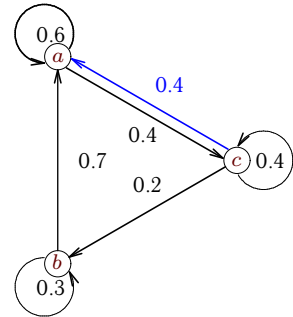
$$\vec{p}_1 = \begin{vmatrix} 0.57 \\ 0.31 \\ 0.12 \end{vmatrix}$$



**Задача i-23.6.**

1

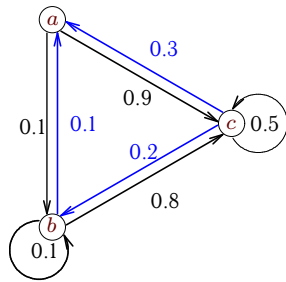
$$\vec{p}_1 = \begin{vmatrix} 0.61 \\ 0.19 \\ 0.2 \end{vmatrix}$$



**Задача i-23.7.**

1

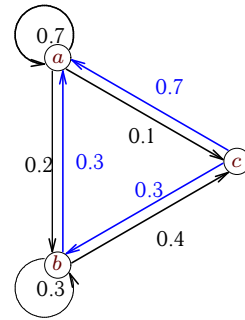
$$\vec{p}_1 = \begin{vmatrix} 0.1 \\ 0.12 \\ 0.78 \end{vmatrix}$$



**Задача i-23.8.**

1

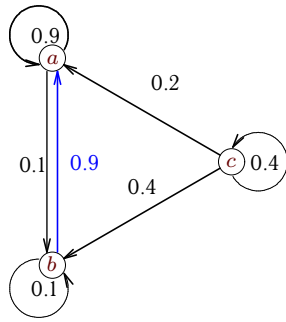
$$\vec{p}_1 = \begin{vmatrix} 0.54 \\ 0.26 \\ 0.2 \end{vmatrix}$$



Задача i-23.9.

1

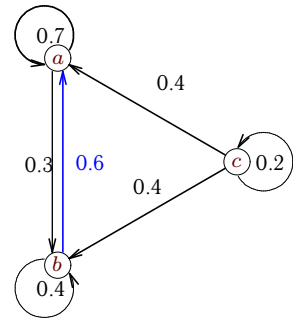
$$\vec{p}_1 = \begin{vmatrix} 0.41 \\ 0.31 \\ 0.28 \end{vmatrix}$$



Задача i-23.10.

1

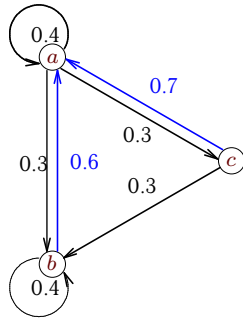
$$\vec{p}_1 = \begin{vmatrix} 0.52 \\ 0.38 \\ 0.1 \end{vmatrix}$$



Задача i-23.11.

1

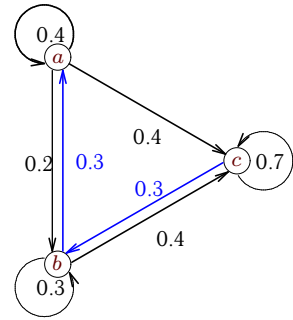
$$\vec{p}_1 = \begin{vmatrix} 0.63 \\ 0.31 \\ 0.06 \end{vmatrix}$$



Задача i-23.12.

1

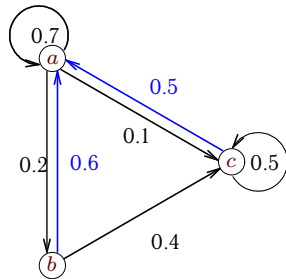
$$\vec{p}_1 = \begin{vmatrix} 0.11 \\ 0.28 \\ 0.61 \end{vmatrix}$$



Задача i-23.13.

1

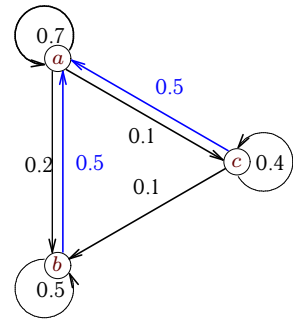
$$\vec{p}_1 = \begin{vmatrix} 0.59 \\ 0.08 \\ 0.33 \end{vmatrix}$$



Задача i-23.14.

1

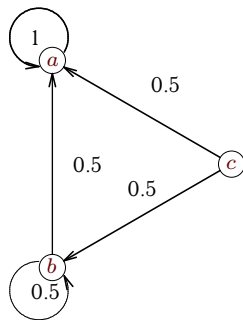
$$\vec{p}_1 = \begin{vmatrix} 0.54 \\ 0.28 \\ 0.18 \end{vmatrix}$$



Задача i-23.15.

1

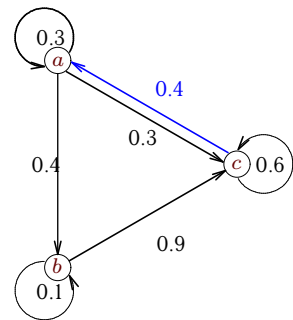
$$\vec{p}_1 = \begin{vmatrix} 0.7 \\ 0.3 \\ 0 \end{vmatrix}$$



Задача i-23.16.

1

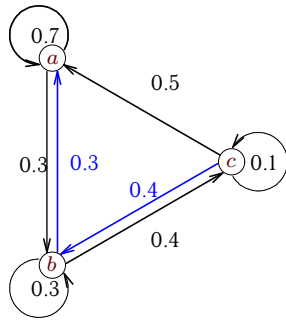
$$\vec{p}_1 = \begin{vmatrix} 0.38 \\ 0.08 \\ 0.54 \end{vmatrix}$$



Задача i-23.17.

1

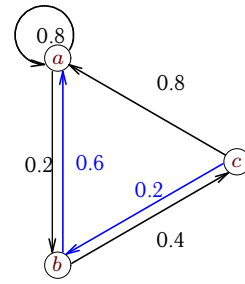
$$\vec{p}_1 = \begin{vmatrix} 0.46 \\ 0.34 \\ 0.2 \end{vmatrix}$$



Задача i-23.18.

1

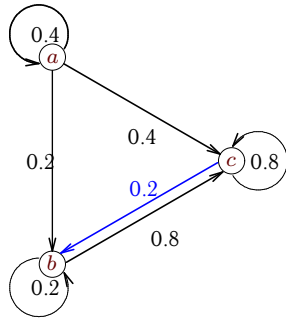
$$\vec{p}_1 = \begin{vmatrix} 0.7 \\ 0.1 \\ 0.2 \end{vmatrix}$$



Задача i-23.19.

1

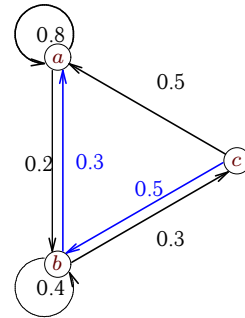
$$\vec{p}_1 = \begin{vmatrix} 0.08 \\ 0.2 \\ 0.72 \end{vmatrix}$$



Задача i-23.20.

1

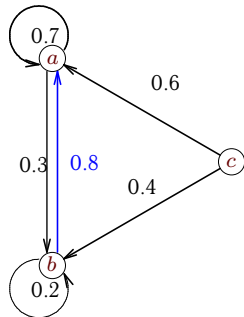
$$\vec{p}_1 = \begin{vmatrix} 0.52 \\ 0.33 \\ 0.15 \end{vmatrix}$$



Задача i-23.21.

1

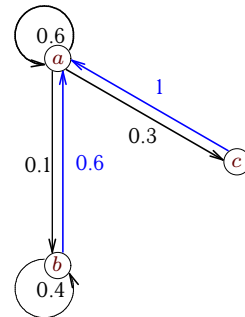
$$\vec{p}_1 = \begin{vmatrix} 0.7 \\ 0.3 \\ 0 \end{vmatrix}$$



Задача i-23.22.

1

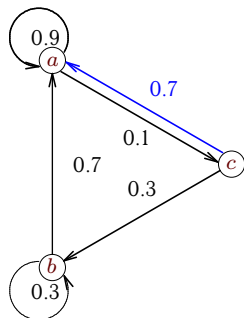
$$\vec{p}_1 = \begin{vmatrix} 0.84 \\ 0.13 \\ 0.03 \end{vmatrix}$$



Задача i-23.23.

1

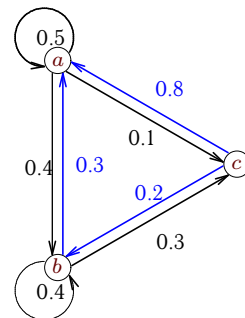
$$\vec{p}_1 = \begin{vmatrix} 0.76 \\ 0.21 \\ 0.03 \end{vmatrix}$$



Задача i-23.24.

1

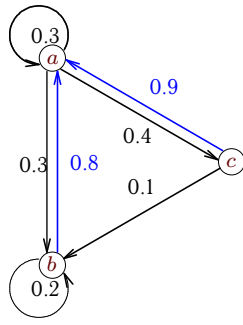
$$\vec{p}_1 = \begin{vmatrix} 0.51 \\ 0.34 \\ 0.15 \end{vmatrix}$$



Задача i-23.25.

1

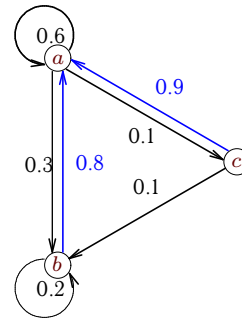
$$\vec{p}_1 = \begin{vmatrix} 0.62 \\ 0.22 \\ 0.16 \end{vmatrix}$$



Задача i-23.26.

1

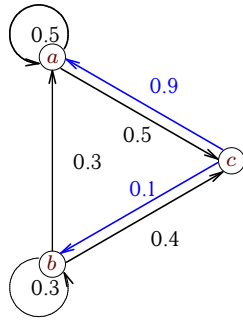
$$\vec{p}_1 = \begin{vmatrix} 0.79 \\ 0.19 \\ 0.02 \end{vmatrix}$$



Задача i-23.27.

1

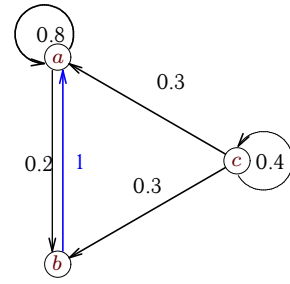
$$\vec{p}_1 = \begin{vmatrix} 0.72 \\ 0.09 \\ 0.19 \end{vmatrix}$$



Задача i-23.28.

1

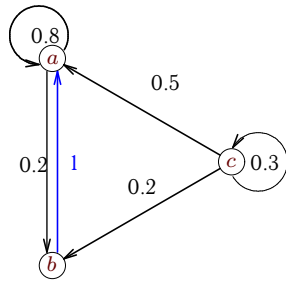
$$\vec{p}_1 = \begin{vmatrix} 0.54 \\ 0.22 \\ 0.24 \end{vmatrix}$$



Задача i-23.29.

1

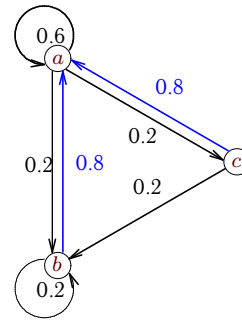
$$\vec{p}_1 = \begin{vmatrix} 0.56 \\ 0.2 \\ 0.24 \end{vmatrix}$$



Задача i-23.30.

1

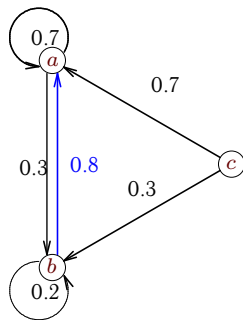
$$\vec{p}_1 = \begin{vmatrix} 0.76 \\ 0.2 \\ 0.04 \end{vmatrix}$$



Задача i-23.31.

1

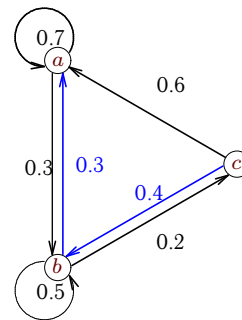
$$\vec{p}_1 = \begin{vmatrix} 0.72 \\ 0.28 \\ 0 \end{vmatrix}$$



Задача i-23.32.

1

$$\vec{p}_1 = \begin{vmatrix} 0.48 \\ 0.42 \\ 0.1 \end{vmatrix}$$



**i-23 Ответы.**  
**Марковские цепи (2)**

07.11.2012

№	$\vec{p}_0$
1	[0.3, 0.3, 0.4]
2	[0.2, 0, 0.8]
3	[0.3, 0.5, 0.2]
4	[0.3, 0, 0.7]
5	[0.1, 0, 0.9]
6	[0.3, 0.5, 0.2]
7	[0.4, 0.4, 0.2]
8	[0.4, 0.4, 0.2]
9	[0.3, 0, 0.7]
10	[0.2, 0.3, 0.5]
11	[0.2, 0.1, 0.7]
12	[0.2, 0.1, 0.7]
13	[0.4, 0.1, 0.5]
14	[0.2, 0.4, 0.4]
15	[0.4, 0.2, 0.4]
16	[0.2, 0, 0.8]
17	[0.2, 0.4, 0.4]
18	[0.3, 0.5, 0.2]
19	[0.2, 0, 0.8]
20	[0.4, 0.5, 0.1]
21	[0.2, 0.4, 0.4]
22	[0.1, 0.3, 0.6]
23	[0.3, 0.1, 0.6]
24	[0.3, 0.4, 0.3]
25	[0.4, 0.4, 0.2]
26	[0.2, 0.5, 0.3]
27	[0.3, 0.1, 0.6]
28	[0.2, 0.2, 0.6]
29	[0.2, 0, 0.8]
30	[0.2, 0.3, 0.5]
31	[0.2, 0.2, 0.6]
32	[0.3, 0.5, 0.2]

i-23 файл o23b1A