

W3.

1.

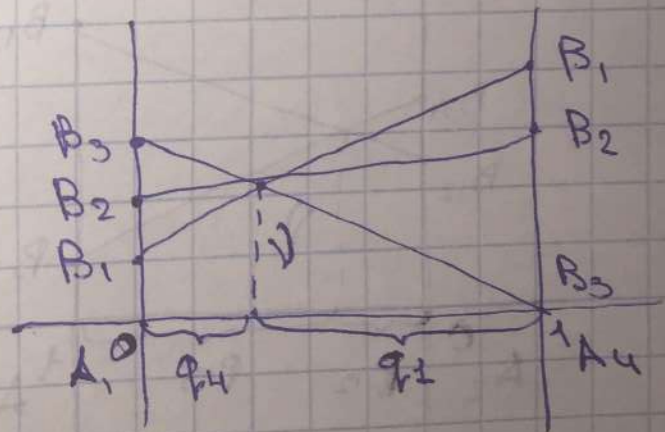
4x4	B ₁	B ₂	B ₃	B ₄	L _i
A ₁	1	2	4	3	1
A ₂	0	2	3	2	0
A ₃	1	2	4	3	1
A ₄	4	3	1	0	0
B _j	4	3	4	3	3

не вывед. по ср. с A₁

не вывед. по ср. с A₁

не вывед. по ср. с B₄

2x3	B ₁	B ₂	B ₄
A ₁	1	2	3
A ₄	4	3	0



$$\begin{cases} p_1 + 4p_3 = 1 \\ 3p_1 = 1 \\ p_1 + p_3 = 1 \end{cases}$$

$$p_1 = \frac{2}{3}$$

$$p_3 = \frac{1}{3}$$

$$v = 2$$

$$\begin{cases} q_1 + 3q_4 = 1 \\ 4q_1 = 1 \\ q_1 + q_4 = 1 \end{cases}$$

$$q_1 = 0,5$$

$$q_4 = 0,5$$

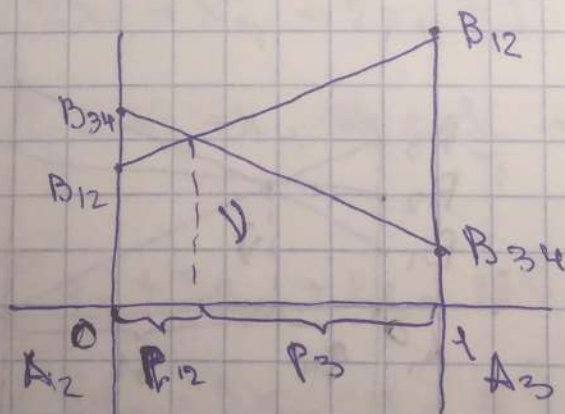
$$v = 2$$

$$S_A^* = \left(\frac{2}{3}; 0; 0; \frac{1}{3}\right) \quad S_B^* = (0,5; 0; 0; 0,5) \quad v = 2$$

2.

3x4	B ₁	B ₂	B ₃	B ₄	d _i
A ₁	0	5	5	2	0
A ₂	5	0	2	5	0
A ₃	5	5	1	1	1
B _j	5	5	5	5	5

2x2	B ₁₂	B ₃₄
A ₁₂	2,5	3,5
A ₃	5	1



$$\begin{cases} 2,5p_{12} + 5p_3 = 1 \\ 3,5p_{12} + p_3 = 1 \\ p_{12} + p_3 = 1 \end{cases}$$

$$p_{12} = 0,8$$

$$p_3 = 0,2$$

$$V = 3$$

$$\begin{cases} 2,5q_{12} + 3,5q_{34} = 1 \\ 5q_{12} + q_{34} = 1 \\ q_{12} + q_{34} = 1 \end{cases}$$

$$q_{12} = 0,5$$

$$q_{34} = 0,5$$

$$V = 3$$

$$S_A^* = (0,4; 0,4; 0,2)$$

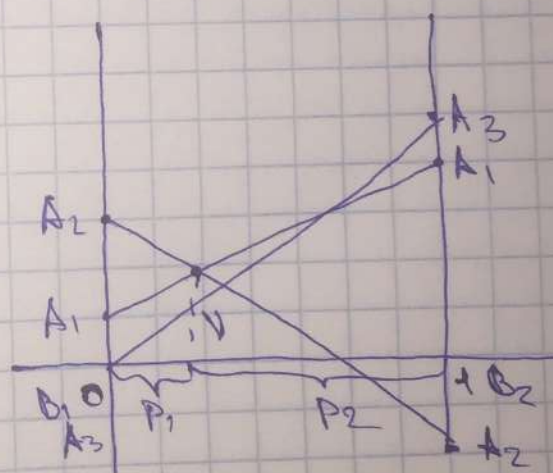
$$S_B^* = (0,25; 0,25; 0,25; 0,25)$$

$$V = 3$$

3.

3x2	B ₁	B ₂	d _i
A ₁	1	4	1
A ₂	3	-2	-2
A ₃	0	5	0
S _j	3	5	3

$$\begin{cases} p_1 + 3p_2 = 1 \\ 4p_1 + (-2)p_2 = 1 \\ p_1 + p_2 = 1 \end{cases} \quad \begin{aligned} p_1 &= \frac{5}{8} \\ p_2 &= \frac{3}{8} \end{aligned}$$



$$\begin{cases} q_1 + 4q_2 = 1 \\ 3q_1 - 2q_2 = 1 \\ q_1 + q_2 = 1 \end{cases} \quad \begin{aligned} q_1 &= \frac{6}{8} \\ q_2 &= \frac{2}{8} \end{aligned}$$

$$S_A^* = \left(\frac{5}{8}; \frac{3}{8}; 0\right) \quad S_B^* = \left(\frac{6}{8}; \frac{2}{8}; 0\right) \quad V = 1,75$$