Нечеткие множества

Определить результат действий над нечеткими множествами.

Задача 10.1

$A = 0.7/a + 0.3/b + 0.2/c + 0.1/d;$
$B = 0.1/a + 0.3/b + 0.3/c + 0.8/d;$
$C = 0.7/a + 0.2/b + 0.3/c + 0.8/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON}\,(A) \cup C$
$X \cup Y =?$
10.3

Задача 10.2

$A = 0.2/a + 0.7/b + 0.7/c + 0.1/d;$
$B = 0.1/a + 0.8/b + 0.1/c + 0.5/d;$
$C = 0.2/a + 0.7/b + 0.8/c + 0.5/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$\bar{X} \cap Y =?$
10.3

Задача 10.3

$A = 0.2/a + 0.8/b + 0.8/c + 0.7/d;$
$B = 0.7/a + 0.7/b + 0.7/c + 0.4/d;$
$C = 0.2/a + 0.8/b + 0.7/c + 0.4/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$\bar{X} \cap Y =?$
10.3

Задача 10.4

$A = 0.2/a + 0.4/b + 0.1/c + 0.9/d;$
$B = 0.9/a + 0.8/b + 0.4/c + 0.5/d;$
$C = 0.2/a + 0.1/b + 0.8/c + 0.5/d;$
$X = A \cup \bar{B}, \quad Y = \text{CON}(A\hat{+}C),$
$X \cup Y =?$
10.3

Задача 10.5

$A = 0.5/a + 0.6/b + 0.7/c + 0.5/d;$
$B = 0.5/a + 0.3/b + 0.8/c + 0.8/d;$
$C = 0.5/a + 0.7/b + 0.3/c + 0.8/d;$
$X = \bar{A} \cap B, \quad Y = \text{CON}(A\hat{+}C),$
$\bar{X} \cap Y =?$
10.3

Задача 10.6

$A = 0.3/a + 0.5/b + 0.1/c + 0.5/d;$
$B = 0.5/a + 0.9/b + 0.6/c + 0.5/d;$
$C = 0.3/a + 0.1/b + 0.9/c + 0.5/d;$
$X = A \cup \bar{B}, \quad Y = \text{CON}(A\hat{+}C),$
$X \cup Y =?$
10.3

Задача 10.7

$A = 0.3/a + 0.5/b + 0.5/c + 0.4/d;$
$B = 0.4/a + 0.9/b + 0.2/c + 0.8/d;$
$C = 0.3/a + 0.5/b + 0.9/c + 0.8/d;$
$X = A \cup \bar{B}, \quad Y = \text{CON}(A\hat{+}C),$
$X \cap Y =?$
10.3

Задача 10.8

$A = 0.8/a + 0.4/b + 0.7/c + 0.1/d;$
$B = 0.1/a + 0.3/b + 0.4/c + 0.6/d;$
$C = 0.8/a + 0.7/b + 0.3/c + 0.6/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON}(A\hat{+}C),$
$\bar{X} \cap Y =?$
10.3

Задача 10.9

$A = 0.3/a + 0.6/b + 0.7/c + 0.4/d;$
$B = 0.4/a + 0.4/b + 0.4/c + 0.5/d;$
$C = 0.3/a + 0.7/b + 0.4/c + 0.5/d;$
$X = A \cup \bar{B}, \quad Y = \text{CON}(A\hat{+}C),$
$\bar{X} \cap Y =?$
10.3

Задача 10.10

$A = 0.1/a + 0.9/b + 0.8/c + 0.4/d;$
$B = 0.4/a + 0.5/b + 0.4/c + 0.2/d;$
$C = 0.1/a + 0.8/b + 0.5/c + 0.2/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$\bar{X} \cap Y =?$
10.3

Задача 10.11

$A = 0.8/a + 0.1/b + 0.1/c + 0.5/d;$
$B = 0.5/a + 0.9/b + 0.5/c + 0.9/d;$
$C = 0.8/a + 0.1/b + 0.9/c + 0.9/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON}\,(A) \cup C$
$X \cup Y =?$
10.3

Задача 10.12

$A = 0.3/a + 0.9/b + 0.5/c + 0.2/d;$
$B = 0.2/a + 0.4/b + 0.6/c + 0.4/d;$
$C = 0.3/a + 0.5/b + 0.4/c + 0.4/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$X \cap Y =?$
10.3

Задача 10.13

$A = 0.4/a + 0.8/b + 0.7/c + 0.5/d;$
$B = 0.5/a + 0.6/b + 0.7/c + 0.3/d;$
$C = 0.4/a + 0.7/b + 0.6/c + 0.3/d;$
$X = \bar{A} \cap B, \quad Y = \text{DIL}(CB),$
$\bar{X} \cap Y = ?$

10.3

Задача 10.14

$A = 0.5/a + 0.2/b + 0.5/c + 0.2/d;$
$B = 0.2/a + 0.8/b + 0.8/c + 0.5/d;$
$C = 0.5/a + 0.5/b + 0.8/c + 0.5/d;$
$X = \bar{A} \cap B, \quad Y = \text{CON }(A) \cup C$
$X \cap Y = ?$

10.3

Задача 10.15

$A = 0.6/a + 0.4/b + 0.9/c + 0.2/d;$
$B = 0.2/a + 0.8/b + 0.9/c + 0.9/d;$
$C = 0.6/a + 0.9/b + 0.8/c + 0.9/d;$
$X = \bar{A} \cap B, \quad Y = \text{CON}(A\hat{+}C),$
$\bar{X} \cap Y = ?$

10.3

Задача 10.16

$A = 0.2/a + 0.9/b + 0.1/c + 0.6/d;$
$B = 0.6/a + 0.9/b + 0.7/c + 0.8/d;$
$C = 0.2/a + 0.1/b + 0.9/c + 0.8/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$X \cup Y = ?$

10.3

Задача 10.17

$A = 0.5/a + 0.2/b + 0.3/c + 0.3/d;$
$B = 0.3/a + 0.5/b + 0.1/c + 0.3/d;$
$C = 0.5/a + 0.3/b + 0.5/c + 0.3/d;$
$X = \bar{A} \cap B, \quad Y = \text{CON }(A) \cup C$
$X \cup Y = ?$

10.3

Задача 10.18

$A = 0.8/a + 0.1/b + 0.9/c + 0.1/d;$
$B = 0.1/a + 0.7/b + 0.3/c + 0.2/d;$
$C = 0.8/a + 0.9/b + 0.7/c + 0.2/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON }(A) \cup C$
$\bar{X} \cap Y = ?$

10.3

Задача 10.19

$A = 0.8/a + 0.2/b + 0.4/c + 0.3/d;$
$B = 0.3/a + 0.6/b + 0.3/c + 0.7/d;$
$C = 0.8/a + 0.4/b + 0.6/c + 0.7/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON }(A) \cup C$
$X \cap Y = ?$

10.3

Задача 10.20

$A = 0.6/a + 0.3/b + 0.9/c + 0.3/d;$
$B = 0.3/a + 0.7/b + 0.7/c + 0.7/d;$
$C = 0.6/a + 0.9/b + 0.7/c + 0.7/d;$
$X = \bar{A} \cap B, \quad Y = \text{CON }(A) \cup C$
$\bar{X} \cap Y = ?$

10.3

Задача 10.21

$A = 0.3/a + 0.8/b + 0.4/c + 0.3/d;$
$B = 0.3/a + 0.8/b + 0.5/c + 0.6/d;$
$C = 0.3/a + 0.4/b + 0.8/c + 0.6/d;$
$X = A \cup \bar{B}, \quad Y = \text{DIL}(CB),$
$X \cap Y = ?$

10.3

Задача 10.22

$A = 0.8/a + 0.4/b + 0.6/c + 0.3/d;$
$B = 0.3/a + 0.4/b + 0.1/c + 0.2/d;$
$C = 0.8/a + 0.6/b + 0.4/c + 0.2/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON}(A\hat{+}C),$
$X \cap Y = ?$

10.3

Задача 10.23

$A = 0.7/a + 0.2/b + 0.4/c + 0.3/d;$
$B = 0.3/a + 0.3/b + 0.1/c + 0.2/d;$
$C = 0.7/a + 0.4/b + 0.3/c + 0.2/d;$
$X = \bar{A} \cup B, \quad Y = \text{CON }(A) \cup C$
$X \cap Y = ?$

10.3

Задача 10.24

$A = 0.1/a + 0.5/b + 0.1/c + 0.3/d;$
$B = 0.3/a + 0.8/b + 0.3/c + 0.5/d;$
$C = 0.1/a + 0.1/b + 0.8/c + 0.5/d;$
$X = A \cup \bar{B}, \quad Y = \text{CON}(A\hat{+}C),$
$X \cup Y = ?$

10.3

Задача 10.25	**Задача** 10.26
$A = 0.6/a + 0.1/b + 0.8/c + 0.1/d;$ $B = 0.1/a + 0.4/b + 0.8/c + 0.6/d;$ $C = 0.6/a + 0.8/b + 0.4/c + 0.6/d;$ $X = \bar{A} \cap B, \quad Y = \text{CON } (A) \cup C$ $\bar{X} \cap Y =?$ *10.3*	$A = 0.4/a + 0.9/b + 0.1/c + 0.3/d;$ $B = 0.3/a + 0.5/b + 0.4/c + 0.1/d;$ $C = 0.4/a + 0.1/b + 0.5/c + 0.1/d;$ $X = \bar{A} \cap B, \quad Y = \text{DIL}(CB),$ $X \cup Y =?$ *10.3*
Задача 10.27	**Задача** 10.28
$A = 0.4/a + 0.9/b + 0.8/c + 0.9/d;$ $B = 0.9/a + 0.6/b + 0.3/c + 0.9/d;$ $C = 0.4/a + 0.8/b + 0.6/c + 0.9/d;$ $X = \bar{A} \cap B, \quad Y = \text{DIL}(CB),$ $\bar{X} \cap Y =?$ *10.3*	$A = 0.1/a + 0.1/b + 0.8/c + 0.9/d;$ $B = 0.9/a + 0.7/b + 0.7/c + 0.3/d;$ $C = 0.1/a + 0.8/b + 0.7/c + 0.3/d;$ $X = A \cup \bar{B}, \quad Y = \text{CON } (A) \cup C$ $\bar{X} \cap Y =?$ *10.3*
Задача 10.29	**Задача** 10.30
$A = 0.8/a + 0.7/b + 0.4/c + 0.8/d;$ $B = 0.8/a + 0.1/b + 0.4/c + 0.6/d;$ $C = 0.8/a + 0.4/b + 0.1/c + 0.6/d;$ $X = \bar{A} \cup B, \quad Y = \text{DIL}(CB),$ $X \cap Y =?$ *10.3*	$A = 0.4/a + 0.5/b + 0.1/c + 0.2/d;$ $B = 0.2/a + 0.2/b + 0.3/c + 0.4/d;$ $C = 0.4/a + 0.1/b + 0.2/c + 0.4/d;$ $X = \bar{A} \cap B, \quad Y = \text{CON}(A\hat{+}C),$ $X \cup Y =?$ *10.3*
Задача 10.31	**Задача** 10.32
$A = 0.5/a + 0.4/b + 0.4/c + 0.9/d;$ $B = 0.9/a + 0.3/b + 0.9/c + 0.7/d;$ $C = 0.5/a + 0.4/b + 0.3/c + 0.7/d;$ $X = \bar{A} \cap B, \quad Y = \text{CON}(A\hat{+}C),$ $X \cap Y =?$ *10.3*	$A = 0.4/a + 0.2/b + 0.5/c + 0.7/d;$ $B = 0.7/a + 0.6/b + 0.3/c + 0.8/d;$ $C = 0.4/a + 0.5/b + 0.6/c + 0.8/d;$ $X = \bar{A} \cap B, \quad Y = \text{CON } (A) \cup C$ $X \cap Y =?$ *10.3*

Нечеткие множества

	X				Y				
1	0.3	0.7	0.8	0.9	0.7	0.2	0.3	0.8	$0.70/a + 0.70/b + 0.80/c + 0.90/d$
2	0.9	0.7	0.9	0.5	0.14	0.75	0.28	0.5	$0.10/a + 0.30/b + 0.10/c + 0.50/d$
3	0.3	0.8	0.8	0.7	0.37	0.75	0.7	0.4	$0.37/a + 0.20/b + 0.20/c + 0.30/d$
4	0.2	0.4	0.6	0.9	0.13	0.21	0.67	0.9	$0.20/a + 0.40/b + 0.67/c + 0.90/d$
5	0.5	0.3	0.3	0.5	0.56	0.77	0.62	0.81	$0.50/a + 0.70/b + 0.62/c + 0.50/d$
6	0.5	0.5	0.4	0.5	0.26	0.3	0.83	0.56	$0.50/a + 0.50/b + 0.83/c + 0.56/d$
7	0.6	0.5	0.8	0.4	0.26	0.56	0.9	0.77	$0.26/a + 0.50/b + 0.80/c + 0.40/d$
8	0.2	0.6	0.4	0.9	0.92	0.67	0.62	0.41	$0.80/a + 0.40/b + 0.60/c + 0.10/d$
9	0.6	0.6	0.7	0.5	0.26	0.77	0.67	0.49	$0.26/a + 0.40/b + 0.30/c + 0.49/d$
10	0.6	0.9	0.8	0.8	0.2	0.63	0.45	0.2	$0.20/a + 0.10/b + 0.20/c + 0.20/d$
11	0.5	0.9	0.9	0.9	0.8	0.1	0.9	0.9	$0.80/a + 0.90/b + 0.90/c + 0.90/d$
12	0.8	0.9	0.5	0.6	0.24	0.45	0.49	0.4	$0.24/a + 0.45/b + 0.49/c + 0.40/d$
13	0.5	0.2	0.3	0.3	0.45	0.65	0.65	0.3	$0.45/a + 0.65/b + 0.65/c + 0.30/d$
14	0.2	0.8	0.5	0.5	0.5	0.5	0.8	0.5	$0.20/a + 0.50/b + 0.50/c + 0.50/d$
15	0.2	0.6	0.1	0.8	0.7	0.88	0.96	0.85	$0.71/a + 0.40/b + 0.90/c + 0.20/d$
16	0.4	0.9	0.3	0.6	0.35	0.3	0.8	0.8	$0.40/a + 0.90/b + 0.79/c + 0.80/d$
17	0.3	0.5	0.1	0.3	0.5	0.3	0.5	0.3	$0.50/a + 0.50/b + 0.50/c + 0.30/d$
18	0.2	0.9	0.3	0.9	0.8	0.9	0.81	0.2	$0.80/a + 0.10/b + 0.70/c + 0.10/d$
19	0.3	0.8	0.6	0.7	0.8	0.4	0.6	0.7	$0.30/a + 0.40/b + 0.60/c + 0.70/d$
20	0.3	0.7	0.1	0.7	0.6	0.9	0.81	0.7	$0.60/a + 0.30/b + 0.81/c + 0.30/d$
21	0.7	0.8	0.5	0.4	0.3	0.57	0.63	0.6	$0.30/a + 0.57/b + 0.50/c + 0.40/d$
22	0.3	0.6	0.4	0.7	0.92	0.58	0.58	0.2	$0.30/a + 0.58/b + 0.40/c + 0.19/d$
23	0.3	0.8	0.6	0.7	0.7	0.4	0.3	0.2	$0.30/a + 0.40/b + 0.30/c + 0.20/d$
24	0.7	0.5	0.7	0.5	0.04	0.3	0.67	0.42	$0.70/a + 0.50/b + 0.70/c + 0.50/d$
25	0.1	0.4	0.2	0.6	0.6	0.8	0.64	0.6	$0.60/a + 0.60/b + 0.64/c + 0.40/d$
26	0.3	0.1	0.4	0.1	0.35	0.22	0.45	0.1	$0.35/a + 0.22/b + 0.45/c + 0.10/d$
27	0.6	0.1	0.2	0.1	0.6	0.7	0.42	0.9	$0.40/a + 0.69/b + 0.42/c + 0.90/d$
28	0.1	0.3	0.8	0.9	0.1	0.8	0.7	0.81	$0.10/a + 0.70/b + 0.20/c + 0.10/d$
29	0.8	0.3	0.6	0.6	0.8	0.2	0.2	0.6	$0.80/a + 0.20/b + 0.20/c + 0.60/d$
30	0.2	0.2	0.3	0.4	0.41	0.3	0.08	0.27	$0.41/a + 0.30/b + 0.30/c + 0.40/d$
31	0.5	0.3	0.6	0.1	0.56	0.41	0.34	0.94	$0.50/a + 0.30/b + 0.34/c + 0.10/d$
32	0.6	0.6	0.3	0.3	0.4	0.5	0.6	0.8	$0.40/a + 0.50/b + 0.30/c + 0.30/d$