

Множества. Операции. Мощность.

Универсальное множество состоит из 26 строчных букв латинского алфавита.

Заданы множества A , B , C и D . Вычислить мощность множеств X и Y .

<p>Задача 4.1 $A = \{a, c, f, h, l, p\}$, $B = \{j, k, l, n, v\}$, $C = \{g, h, i, x, y\}$, $D = \{b, e, j, o, z\}$. $X = (A \cap C) \cup (D \cap B)$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.2 $A = \{a, b, g, h, i, p\}$, $B = \{h, i, o, s\}$, $C = \{h, i, j, w\}$, $D = \{g, h, o, w, x\}$. $X = (A \setminus C) \cap \overline{B}$, $Y = (\overline{A \cap B}) \setminus (C \cup D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.3 $A = \{b, c, f, j\}$, $B = \{b, h, i, l, z\}$, $C = \{d, e, n, o, p\}$, $D = \{a, b, h, i, p, q, u, v\}$. $X = (A \setminus C) \cap \overline{B}$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>
<p>Задача 4.4 $A = \{c, d, i, j\}$, $B = \{d, g, h, l, n\}$, $C = \{b, c, g, s, t\}$, $D = \{b, g, i, r, s, w, x\}$. $X = (A \cap C) \cup B$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.5 $A = \{c, e, j, l, n\}$, $B = \{b, c, m, v\}$, $C = \{k, l, q, x\}$, $D = \{b, k, m, q, r, v, w\}$. $X = (A \cup D) \cap C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.6 $A = \{f, k, m, n, w\}$, $B = \{j, k, u\}$, $C = \{l, m, s\}$, $D = \{j, l, v, y, z\}$. $X = (A \cap C) \cup (D \cap B)$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>
<p>Задача 4.7 $A = \{b, c, g, h, k\}$, $B = \{b, c, d, k, l, w\}$, $C = \{g, h, n, o, w, x\}$, $D = \{c, g, j, p, q, u, v\}$. $X = (A \cup B) \cap C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.8 $A = \{f, g, h, m\}$, $B = \{f, g, p, t\}$, $C = \{f, g, o, z\}$, $D = \{f, l, t, u, y, z\}$. $X = (A \cap B) \cup C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.9 $A = \{a, e, h, i, k\}$, $B = \{c, d, k, m, u\}$, $C = \{e, f, n, p, v, w\}$, $D = \{c, d, g, y, z\}$. $X = (A \cup B) \cap C$, $Y = (\overline{A \cap B}) \setminus (C \cup D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>
<p>Задача 4.10 $A = \{d, i, j, m\}$, $B = \{f, g, i, q, s\}$, $C = \{c, d, n, w, y, z\}$, $D = \{c, f, i, w, x\}$. $X = (A \cap B) \cup C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.11 $A = \{b, c, h, k, l\}$, $B = \{f, g, h, n, r\}$, $C = \{d, e, m, t, u\}$, $D = \{a, b, f, g, v, w\}$. $X = (A \cap B) \cup C$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.12 $A = \{c, d, h, j, l, n\}$, $B = \{b, c, l, n, x\}$, $C = \{j, k, n, t, x, y\}$, $D = \{b, g, i\}$. $X = (A \cup D) \cap C$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>
<p>Задача 4.13 $A = \{b, c, e, j, m\}$, $B = \{e, f, g, m, v, w\}$, $C = \{g, h, l, p, q, r\}$, $D = \{b, d, e, i\}$. $X = (A \setminus B) \cap (\overline{C \cap D})$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.14 $A = \{i, j, k, n\}$, $B = \{c, d, i, s, u\}$, $C = \{j, k, x, y\}$, $D = \{c, j, m, w, x\}$. $X = (A \cup B) \cap C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>	<p>Задача 4.15 $A = \{c, d, i, n, o\}$, $B = \{d, e, f, m, n, x\}$, $C = \{k, l, r, x, z\}$, $D = \{b, e, h, m, r, s, w, x\}$. $X = (A \setminus B) \cap (\overline{C \cap D})$, $Y = (A \setminus D) \cup (\overline{C \setminus B})$.</p> <p style="font-size: small; margin-top: 5px;">4.2</p>

<p>Задача 4.16 $A = \{a, c, g, l, p\},$ $B = \{a, i, j, k, s\},$ $C = \{i, j, w\},$ $D = \{b, f, i, o, p, t, u\}.$ $X = (A \cap B) \cup (D \cap C),$ $Y = (A \setminus D) \cup (\overline{C \setminus B}).$</p> <p>4.2</p>	<p>Задача 4.17 $A = \{a, f, i, l, q\},$ $B = \{h, i, l, o, v, z\},$ $C = \{i, j, w, z\},$ $D = \{h, p, z\}.$ $X = (A \setminus C) \cap \overline{B},$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>	<p>Задача 4.18 $A = \{c, f, g, h, m, r\},$ $B = \{f, g, o, p\},$ $C = \{i, j, u, y, z\},$ $D = \{b, f, l, t, u, y, z\}.$ $X = (A \cap B) \cup C,$ $Y = (A \setminus D) \cup (\overline{C \setminus B}).$</p> <p>4.2</p>
<p>Задача 4.19 $A = \{a, g, j, s\},$ $B = \{a, f, g, k\},$ $C = \{a, b, p, q, t\},$ $D = \{f, o, p, t, u\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>	<p>Задача 4.20 $A = \{h, i, j, t\},$ $B = \{a, b, h, q, r\},$ $C = \{h, i, r\},$ $D = \{a, h, i, v, w\}.$ $X = (A \cup B) \cap D,$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.2</p>	<p>Задача 4.21 $A = \{a, b, h, m, u\},$ $B = \{a, e, f, i, k, u\},$ $C = \{i, j, n, u, v\},$ $D = \{a, e, g, l, o, p, t, u\}.$ $X = (A \setminus B) \cap (\overline{C \cap D}),$ $Y = (\overline{A \cap D}) \cup (C \setminus B).$</p> <p>4.2</p>
<p>Задача 4.22 $A = \{a, d, f, j, n, v\},$ $B = \{f, g, p, r\},$ $C = \{d, e, x, z\},$ $D = \{c, f, i, t, u, y, z\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>	<p>Задача 4.23 $A = \{b, d, e, g, m, w\},$ $B = \{e, f, g, k, o, x\},$ $C = \{h, i, q, v, w\},$ $D = \{a, f, l, s, t, x, y\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A \cap D}) \cup (C \setminus B).$</p> <p>4.2</p>	<p>Задача 4.24 $A = \{a, g, i, k, n, x\},$ $B = \{e, f, g, q, t\},$ $C = \{i, j, y\},$ $D = \{e, h, m, u, v, z\}.$ $X = (A \setminus B) \cap (\overline{C \cap D}),$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>
<p>Задача 4.25 $A = \{a, b, c, i, y\},$ $B = \{e, g, h, i, s, w\},$ $C = \{b, c, k, l\},$ $D = \{a, g, h, w, x\}.$ $X = (A \cap C) \cup B,$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>	<p>Задача 4.26 $A = \{a, c, k, q, z\},$ $B = \{a, f, g, k, l, u\},$ $C = \{m, n, r\},$ $D = \{b, f, j, o, p, t, u\}.$ $X = (A \cap B) \cup C,$ $Y = (A \setminus D) \cup (\overline{C \setminus B}).$</p> <p>4.2</p>	<p>Задача 4.27 $A = \{f, g, j, m\},$ $B = \{c, d, f, p, t\},$ $C = \{f, g, w\},$ $D = \{c, f, i, t, u, y, z\}.$ $X = (A \cup B) \cap C,$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.2</p>
<p>Задача 4.28 $A = \{b, c, d, o\},$ $B = \{b, c, e, o, w, y\},$ $C = \{a, b, g, k, l\},$ $D = \{a, b, c\}.$ $X = (A \cup D) \cap C,$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.2</p>	<p>Задача 4.29 $A = \{a, b, c, i, q\},$ $B = \{a, h, i, k, l, w\},$ $C = \{j, k, t, y, z\},$ $D = \{a, h, o, p, t, u\}.$ $X = (A \setminus C) \cap \overline{B},$ $Y = (\overline{A \cap D}) \cup (C \setminus B).$</p> <p>4.2</p>	<p>Задача 4.30 $A = \{a, d, f, h, m\},$ $B = \{b, c, h, q, r\},$ $C = \{d, e, s, y, z\},$ $D = \{b, c, e, v, w\}.$ $X = (A \cup D) \cap C,$ $Y = (\overline{A \cap B}) \setminus (C \cup D).$</p> <p>4.2</p>

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№	Card(X)	Card(Y)		
1	2	10	$A \setminus D = a, c, f, h, l, p$	$\overline{C \setminus B} = j, k, l, n, v$
2	4	15	$(\overline{A} \cap \overline{B}) = c, d, e, f, j, k, l, m, n, q, r, t, u, v, w, x, y, z$	$(C \cup D) = g, h, i, j, o, w, x$
3	3	8	$A \setminus D = c, f, j$	$\overline{C \setminus B} = b, h, i, l, z$
4	6	4	$(A \cap \overline{B}) = c, i, j$	$(C \setminus D) = c, t$
5	3	5	$(A \cap \overline{B}) = e, j, l, n$	$(C \setminus D) = l, x$
6	2	5	$(A \cap \overline{B}) = f, m, n, w$	$(C \setminus D) = m, s$
7	3	6	$(A \cap \overline{B}) = g, h$	$(C \setminus D) = h, n, o, w, x$
8	4	4	$(A \cap \overline{B}) = h, m$	$(C \setminus D) = g, o$
9	1	9	$(\overline{A} \cap \overline{B}) = b, f, g, j, l, n, o, p, q, r, s, t, v, w, x, y, z$	$(C \cup D) = c, d, e, f, g, n, p, v, w, y, z$
10	7	6	$(A \cap \overline{B}) = d, j, m$	$(C \setminus D) = d, n, y, z$
11	6	8	$A \setminus D = c, h, k, l$	$\overline{C \setminus B} = f, g, h, n, r$
12	2	7	$A \setminus D = c, d, h, j, l, n$	$\overline{C \setminus B} = b, c, l$
13	1	7	$A \setminus D = c, j, m$	$\overline{C \setminus B} = e, f, m, v, w$
14	2	4	$(A \cap \overline{B}) = j, k, n$	$(C \setminus D) = k, y$
15	0	8	$A \setminus D = c, d, i, n, o$	$\overline{C \setminus B} = d, e, f, m, n$
16	2	6	$A \setminus D = a, c, g, l$	$\overline{C \setminus B} = a, k, s$
17	3	14	$(\overline{A} \cap \overline{B}) = b, c, d, e, g, j, k, m, n, p, r, s, t, u, w, x, y$	$(C \cup D) = h, i, j, p, w, z$
18	7	8	$A \setminus D = c, g, h, m, r$	$\overline{C \setminus B} = f, g, o, p$
19	6	14	$(\overline{A} \cap \overline{B}) = b, c, d, e, h, i, l, m, n, o, p, q, r, t, u, v, w, x, y, z$	$(C \cup D) = a, b, f, o, p, q, t, u$
20	3	4	$(A \cap \overline{B}) = i, j, t$	$(C \setminus D) = r$
21	0	9	$(\overline{A} \cap D) = e, g, l, o, p, t$	$(C \setminus B) = j, n, v$
22	5	9	$(\overline{A} \cap \overline{B}) = b, c, e, h, i, k, l, m, o, q, s, t, u, w, x, y, z$	$(C \cup D) = c, d, e, f, i, t, u, x, y, z$
23	7	12	$(\overline{A} \cap D) = a, f, l, s, t, x, y$	$(C \setminus B) = h, i, q, v, w$
24	0	9	$(\overline{A} \cap \overline{B}) = b, c, d, h, j, l, m, o, p, r, s, u, v, w, y, z$	$(C \cup D) = e, h, i, j, m, u, v, y, z$
25	8	13	$(\overline{A} \cap \overline{B}) = d, f, j, k, l, m, n, o, p, q, r, t, u, v, x, z$	$(C \cup D) = a, b, c, g, h, k, l, w, x$
26	5	9	$A \setminus D = a, c, k, q, z$	$\overline{C \setminus B} = a, f, g, k, l, u$
27	2	4	$(A \cap \overline{B}) = g, j, m$	$(C \setminus D) = g, w$
28	2	4	$(A \cap \overline{B}) = d$	$(C \setminus D) = g, k, l$
29	3	8	$(\overline{A} \cap D) = h, o, p, t, u$	$(C \setminus B) = j, t, y, z$
30	2	11	$(\overline{A} \cap \overline{B}) = e, g, i, j, k, l, n, o, p, s, t, u, v, w, x, y, z$	$(C \cup D) = b, c, d, e, s, v, w, y, z$