

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

<p>Задача 4.16 $A = \{c, m, o, p\},$ $B = \{c, j, k, m, r\},$ $C = \{b, c, s, y, z\},$ $D = \{b, j, l, q, r, v, w\}.$ $X = (A \cap C) \cup (D \cap B),$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.3</p>	<p>Задача 4.17 $A = \{b, c, d, j, m, q\},$ $B = \{a, b, j, p, t\},$ $C = \{d, e, q, t, w, x\},$ $D = \{a, b, c, x, y\}.$ $X = (A \cup B) \cap D,$ $Y = (\overline{A} \cap D) \cup (C \setminus B).$</p> <p>4.3</p>	<p>Задача 4.18 $A = \{a, b, g, k, q, r\},$ $B = \{f, g, l, q, u\},$ $C = \{l, m, r\},$ $D = \{a, f, j, p, u, v, z\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A} \cap D) \cup (C \setminus B).$</p> <p>4.3</p>
<p>Задача 4.19 $A = \{a, f, h, n, s\},$ $B = \{f, g, h, n, r, z\},$ $C = \{h, i, t, z\},$ $D = \{f, g, m, v, w\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$</p> <p>4.3</p>	<p>Задача 4.20 $A = \{a, b, f, j, n, t\},$ $B = \{e, f, k, n, x\},$ $C = \{b, c, p, q, u\},$ $D = \{a, e\}.$ $X = (A \setminus B) \cap (\overline{C} \cap D),$ $Y = (\overline{A} \cap D) \cup (C \setminus B).$</p> <p>4.3</p>	<p>Задача 4.21 $A = \{a, c, e, f, k, u\},$ $B = \{a, b, f, k, u\},$ $C = \{g, h, o, p, z\},$ $D = \{a, b, d, e, y, z\}.$ $X = (A \cup B) \cap D,$ $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B}).$</p> <p>4.3</p>
<p>Задача 4.22 $A = \{a, g, m, p, v\},$ $B = \{i, j, m, n, w\},$ $C = \{g, h, w, y, z\},$ $D = \{f, i, o\}.$ $X = (A \cap B) \cup (D \cap C),$ $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$</p> <p>4.3</p>	<p>Задача 4.23 $A = \{d, i, w\},$ $B = \{e, f, i, m, s\},$ $C = \{c, d, r, u, v\},$ $D = \{c, e, h, w, x\}.$ $X = (A \setminus B) \cap (\overline{C} \cap D),$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.3</p>	<p>Задача 4.24 $A = \{a, b, c, j, x\},$ $B = \{a, d, g, h, k, u\},$ $C = \{d, e, k, l\},$ $D = \{a, b, g, i, o, p, t, u\}.$ $X = (A \cap C) \cup B,$ $Y = (\overline{A} \cap D) \cup (C \setminus B).$</p> <p>4.3</p>
<p>Задача 4.25 $A = \{a, e, k, l, r, y\},$ $B = \{e, f, g, o, w\},$ $C = \{l, m\},$ $D = \{f, k, q, s, t, x, y\}.$ $X = (A \cap B) \cup C,$ $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$</p> <p>4.3</p>	<p>Задача 4.26 $A = \{b, d, g, l, m, z\},$ $B = \{d, e, f, n, t\},$ $C = \{h, i, y\},$ $D = \{a, e, f, k, r, s, w, x\}.$ $X = (A \setminus B) \cap (\overline{C} \cap D),$ $Y = (\overline{A} \cap D) \cup (C \setminus B).$</p> <p>4.3</p>	<p>Задача 4.27 $A = \{c, h, l\},$ $B = \{c, d, e, m, p\},$ $C = \{g, h, t\},$ $D = \{d, g, k, q, r, v, w\}.$ $X = (A \setminus B) \cap (C \cap D),$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.3</p>
<p>Задача 4.28 $A = \{f, i, l, u\},$ $B = \{i, j, r, s, z\},$ $C = \{k, l\},$ $D = \{i, k, t, w, x\}.$ $X = (A \cap B) \cup (D \cap C),$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.3</p>	<p>Задача 4.29 $A = \{d, g, k, u\},$ $B = \{d, j, k, n, r\},$ $C = \{j, k\},$ $D = \{j, r, s, t, w, x\}.$ $X = (A \cap C) \cup (D \cap B),$ $Y = (A \cap \overline{B}) \cup (C \setminus D).$</p> <p>4.3</p>	<p>Задача 4.30 $A = \{c, e, j, l, o\},$ $B = \{c, d, e, o, v\},$ $C = \{n, o, y\},$ $D = \{b, c, k, n, s, t, x, y\}.$ $X = (A \cup B) \cap C,$ $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B}).$</p> <p>4.3</p>

Множества. Операции. Мощность.

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