

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 .

Задача 4.1.	12
$A = \{b, g, m, p, x\},$	
$B = \{b, i, j, l, t\},$	
$C = \{h, i\},$	
$D = \{a, f, i, o, p, q, u, v\}.$	
$X = (A \cap B) \cup (D \cap C),$	
$Y = (\overline{A} \cap D) \cup (C \setminus B).$	

Задача 4.2.	12
$A = \{c, i, k, o, u\},$	
$B = \{f, g, k, r, u\},$	
$C = \{b, c, x, y, z\},$	
$D = \{b, f, h, y, z\}.$	
$X = (A \cap B) \cup C,$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.3.	12
$A = \{g, h, o\},$	
$B = \{g, h, o, q\},$	
$C = \{g, h, v\},$	
$D = \{g, n, u, v, z\}.$	
$X = (A \cap C) \cup B,$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.4.	12
$A = \{a, m, o, r\},$	
$B = \{e, f, o, y, z\},$	
$C = \{m, n\},$	
$D = \{e, l, q\}.$	
$X = (A \setminus B) \cap (\overline{C} \cap D),$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.5.	12
$A = \{b, c, h, n\},$	
$B = \{b, e, f, g, l, w\},$	
$C = \{a, b, k, l, p\},$	
$D = \{a, f, g, p, q, u, v\}.$	
$X = (A \cap B) \cup C,$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.6.	12
$A = \{a, l, m, s, u\},$	
$B = \{h, i, m, w, y\},$	
$C = \{m, n\},$	
$D = \{h, l, t\}.$	
$X = (A \setminus C) \cap \overline{B},$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.7.	12
$A = \{b, j, k, l, t\},$	
$B = \{j, k, u, v\},$	
$C = \{k, l\},$	
$D = \{a, i, j, s, y, z\}.$	
$X = (A \cap C) \cup (D \cap B),$	
$Y = (\overline{A} \cap D) \cup (C \setminus B).$	

Задача 4.8.	12
$A = \{c, g, h, m, q\},$	
$B = \{a, b, m, o, w\},$	
$C = \{i, j, p, x, z\},$	
$D = \{a, b, f, g\}.$	
$X = (A \cup B) \cap D,$	
$Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B}).$	

Задача 4.9.	12
$A = \{e, k, n, o, q\},$	
$B = \{a, b, e, o, y\},$	
$C = \{m, n, z\},$	
$D = \{a, m, n, s, t, x, y\}.$	
$X = (A \cup B) \cap D,$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.10.	12
$A = \{a, h, k, l, n, v\},$	
$B = \{c, d, h, r, w\},$	
$C = \{k, l, z\},$	
$D = \{c, j, m, v, w\}.$	
$X = (A \cup B) \cap C,$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.11.	12
$A = \{a, e, h, j, l, n\},$	
$B = \{g, h, o, r\},$	
$C = \{e, f, s, v, x, y\},$	
$D = \{d, g, k, v, w\}.$	
$X = (A \cap C) \cup B,$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.12.	12
$A = \{e, k, o, p, u\},$	
$B = \{a, b, k, t, u, y\},$	
$C = \{n, o, u\},$	
$D = \{a, n, o, y, z\}.$	
$X = (A \cup B) \cap D,$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.13.	12
$A = \{e, g, j, l\},$	
$B = \{e, f, g, q\},$	
$C = \{d, e, q, v, z\},$	
$D = \{d, e, i, u, v, z\}.$	
$X = (A \setminus B) \cap (\overline{C} \cap D),$	
$Y = (A \cap \overline{B}) \cup (C \setminus D).$	

Задача 4.14.	12
$A = \{a, c, e, m, n, p\},$	
$B = \{h, j, k, n, x, y\},$	
$C = \{c, d, o, p, r, s\},$	
$D = \{b, j, l\}.$	
$X = (A \cap C) \cup (D \cap B),$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.15.	12
$A = \{b, g, l, n, s, z\},$	
$B = \{g, h, n, s, x\},$	
$C = \{m, n, z\},$	
$D = \{a, g, k, r\}.$	
$X = (A \cap C) \cup B,$	
$Y = (\overline{A} \cap D) \cup (C \setminus B).$	

Задача 4.16.	12
$A = \{a, d, e, g, h, s\},$	
$B = \{a, b, g, l, q\},$	
$C = \{d, e, m, t, u, w\},$	
$D = \{a, c, d, u, v, z\}.$	
$X = (A \cup B) \cap D,$	
$Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D).$	

Задача 4.17.	12
$A = \{a, c, d, i, j, m\},$	
$B = \{c, d, i, k, s\},$	
$C = \{c, d, n, p, q\},$	
$D = \{b, c, w, x\}.$	
$X = (A \cup B) \cap C,$	
$Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B}).$	

Задача 4.18.	12
$A = \{b, d, j, k, m\},$	
$B = \{b, c, d, n, u\},$	
$C = \{l, m, w\},$	
$D = \{a, b, j, l, r, s, w, x\}.$	
$X = (A \cup D) \cap C,$	
$Y = (\overline{A} \cap D) \cup (C \setminus B).$	

<p>Задача 4.19.</p> <p>$A = \{c, d, i, j\}$, $B = \{d, e, f, n\}$, $C = \{f, g, s, v, w\}$, $D = \{b, c, e, h, r, s, w, x\}$. $X = (A \setminus B) \cap (\overline{C} \cap D)$, $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B})$.</p>	12	<p>Задача 4.20.</p> <p>$A = \{b, i, j, p\}$, $B = \{g, h, j, k, t, v\}$, $C = \{h, i, r, x, y\}$, $D = \{g, h, o, x, y\}$. $X = (A \cap C) \cup B$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p>	12	<p>Задача 4.21.</p> <p>$A = \{a, j, l, n\}$, $B = \{b, c, k, n, u, x\}$, $C = \{j, k, m, y, z\}$, $D = \{b, i, k\}$. $X = (A \cup D) \cap C$, $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D)$.</p>	12
<p>Задача 4.22.</p> <p>$A = \{a, b, k, m, n, x\}$, $B = \{j, k, m, o, w\}$, $C = \{b, c, t, u, y\}$, $D = \{a, j\}$. $X = (A \cap C) \cup (D \cap B)$, $Y = (\overline{A} \cap D) \cup (C \setminus B)$.</p>	12	<p>Задача 4.23.</p> <p>$A = \{c, f, k, m, o\}$, $B = \{g, h, o, q, y\}$, $C = \{h, i, u, x\}$, $D = \{b, e, g, l\}$. $X = (A \cap C) \cup B$, $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B})$.</p>	12	<p>Задача 4.24.</p> <p>$A = \{a, k, l, m, n\}$, $B = \{a, b, k, y\}$, $C = \{k, l, x, z\}$, $D = \{a, j, k, o, p, t, u\}$. $X = (A \cup B) \cap D$, $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D)$.</p>	12
<p>Задача 4.25.</p> <p>$A = \{a, c, k, p\}$, $B = \{a, e, f, k, v\}$, $C = \{m, n\}$, $D = \{b, e, j, o, p, t, u\}$. $X = (A \setminus B) \cap (\overline{C} \cap D)$, $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B})$.</p>	12	<p>Задача 4.26.</p> <p>$A = \{b, e, f, h, l, n\}$, $B = \{b, c, e, o, t\}$, $C = \{m, n, r, v\}$, $D = \{a, b, k, m, s, t, x, y\}$. $X = (A \cup D) \cap C$, $Y = (\overline{A} \cap D) \cup (C \setminus B)$.</p>	12	<p>Задача 4.27.</p> <p>$A = \{b, k, n\}$, $B = \{b, c, d, l, v\}$, $C = \{j, k, y\}$, $D = \{c, j, m, p, q, u, v\}$. $X = (A \cup B) \cap C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p>	12
<p>Задача 4.28.</p> <p>$A = \{a, j, l, n, t, x\}$, $B = \{f, g, j, t, z\}$, $C = \{n, o\}$, $D = \{f, m, s, x, y\}$. $X = (A \cap B) \cup C$, $Y = (\overline{A} \cap \overline{B}) \setminus (C \cup D)$.</p>	12	<p>Задача 4.29.</p> <p>$A = \{a, b, e, g, j, l\}$, $B = \{c, d, e, o, s\}$, $C = \{h, i, v\}$, $D = \{a, c, f, i, s, t, x, y\}$. $X = (A \cup B) \cap C$, $Y = (\overline{A} \cap D) \cup (C \setminus B)$.</p>	12	<p>Задача 4.30.</p> <p>$A = \{h, i, m, o\}$, $B = \{b, c, m, v, w\}$, $C = \{l, m, u, x\}$, $D = \{b, l, n\}$. $X = (A \cup D) \cap C$, $Y = (A \cap \overline{B}) \cup (C \setminus D)$.</p>	12
<p>Задача 4.31.</p> <p>$A = \{c, f, h, k, l\}$, $B = \{a, b, h, n, r, w\}$, $C = \{m, n, o, q\}$, $D = \{a, b, j, k, v, w\}$. $X = (A \cup B) \cap D$, $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B})$.</p>	12	<p>Задача 4.32.</p> <p>$A = \{c, d, e, j, n\}$, $B = \{d, e, o, t\}$, $C = \{l, m, n, x\}$, $D = \{b, d, i, m, s, t, x, y\}$. $X = (A \setminus B) \cap (C \cap D)$, $Y = (A \setminus D) \cup (\overline{C} \setminus \overline{B})$.</p>	12		