

Шифр 37

Внесите в таблицу номера правильных ответов. В заданиях, в которых отсутствуют варианты ответов, внесите правильный ответ.

1	2	3	4	5	6	7	8	9	10
2	3	37	-4	32	6	1	1	5	1
+	-	+	-	+	-	+	-	+	-
11	12	13	14	15	16	17	18	19	20
4	5	128	5	5	1	5	3	2	40

① $a = \frac{1}{\sqrt{8}} + \frac{1}{\sqrt{3}}$, $b = \frac{1}{\sqrt{8}} - \frac{1}{\sqrt{3}}$. $\frac{a^3 - b^3}{(a-b)^3} = \frac{(a-b)(a^2 + ab + b^2)}{(a-b)(a^2 - 2ab + b^2)} = \frac{a^2 + ab + b^2}{a^2 - 2ab + b^2}$, *по формулам*

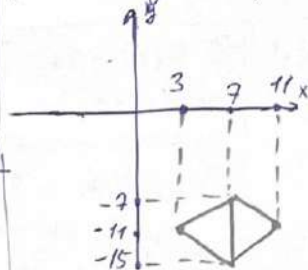
$$\frac{\frac{1}{8} + \frac{\sqrt{24}}{\sqrt{24}} + \frac{1}{3} + \frac{1}{8} - \frac{\sqrt{24}}{\sqrt{24}} + \frac{1}{3}}{\frac{1}{8} + \frac{\sqrt{24}}{\sqrt{24}} + \frac{1}{3} - 2(\frac{1}{8} - \frac{1}{3}) + \frac{1}{8} - \frac{\sqrt{24}}{\sqrt{24}} + \frac{1}{3}} = \frac{\frac{12}{24} + \frac{12}{24} + \frac{12}{24}}{\frac{12}{24} - \frac{12}{24} + \frac{12}{24}} = \frac{12}{12} = 1$$

Омберн: 2

③ $x^6 + 5x^3 - 6 = 0$ $x_1^6 + x_2^6 = (\sqrt[3]{-6})^6 + 1 = 36 + 1 = 37$ Омберн: 37

Пусть $x^3 = t$
 $t^2 + 5t - 6 = 0$
 $D = 25 + 6 \cdot 4 = 49$
 $t = \frac{-5 \pm 7}{2}$
 $t_1 = -6$ $t_2 = 1$
 $x^3 = -6$ $x^3 = 1$
 $x_1 = \sqrt[3]{-6}$ $x_2 = 1$

⑤ $|x-7| + |y+11| \leq 4$
 $y=0 \Rightarrow x \in [3; 11]$
 $x=0 \Rightarrow y \in [-15; -7]$



$S = d_1 \cdot d_2 \cdot \frac{1}{2} = 8 \cdot 8 \cdot \frac{1}{2} = 32$

④ $\frac{x(x+4)}{\frac{2}{x-9} - \frac{1}{x-5}} = \frac{5}{\frac{1}{5-x} + \frac{2}{x-9}}$

$\frac{x(x+4)}{\frac{2}{x-9} - \frac{1}{x-5}} = \frac{5}{\frac{1}{5-x} + \frac{2}{x-9}}$

$x^2 + 4x - 5 = 0$

$D = 16 + 5 \cdot 4 = 36$

$x = \frac{-4 \pm 6}{2}$

$x_1 = -5$ $x_2 = 1$ (3) (3)

$x_1 + x_2 = -5 + 1 = -4$

Омберн: -4

⑥ $\frac{1}{125} \sqrt{-\frac{x}{5} + 1} = \left(\frac{x}{5} - 1\right)^2$

$\frac{1}{56} \left(1 - \frac{x}{5}\right) = \left(1 - \frac{x}{5}\right)^{x^3}$

$\frac{1}{25} = 1 - \frac{x}{5}$

$\frac{x}{5} = 1 - \frac{1}{25} = \frac{24}{25}$

$\frac{5x}{25} = \frac{24}{25}$

$5x = 24$

$x = \frac{24}{5} = 4,8$

Омберн: 3

9) $y = |x^2 - 6x + 8|$

$x^2 - 6x + 8 = 0$

$D = 9 - 8 = 1$

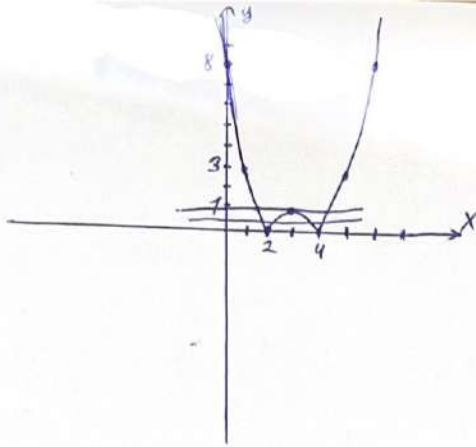
$x = 3 \pm 1$

$x_1 = 4 \quad x_2 = 2$

$x^2 - 6x + 8 = (x-4)(x-2)$

$y = |(x-4)(x-2)|$

x	0	1	2	3	4	5	6
y	8	3	0	1	0	3	8



Для $y=1$, есть три
корня пересечения

Ответ: 5

11) $3^{2x+1} + 27 = 82 \cdot 3^x$

$3^{2x} \cdot 3 + 27 - 82 \cdot 3^x = 0$

Сделаем $3^x = k > 0$

$3k^2 - 82k + 27 = 0$

$D = 1681 - 27 \cdot 3 \cdot 4 = 1357 \approx 37^2$

$k = \frac{41 \pm 37}{3}$

$k_1 = 26 \quad k_2 = \frac{4}{3} \approx 1,33$

$3^x = 26 \quad 3^x = 1,33$

$x_1 \approx 3 \quad 0 < x_2 < 0,5$

$x_1 \cdot x_2 \approx 1,5$. Ответ: 4

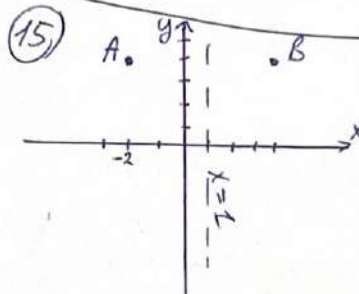
12) $x^4 - \lg x = 1$

$x_1 = 1$ или $4 - \lg x = 0$

$\lg x = 4$

$x_2 = 10000$

$x_1 + x_2 = 10001$. Ответ: 5



прямая $x=1$ удовлетворяет
условию.

$x=1$ и $x-1=0$

- это одно и то же

Ответ:

13) $(3^{\sqrt{x-5}} - 1) \cdot (4^x - 256) > 0$

Каждое из этих функций:

$3^{\sqrt{x-5}} - 1 = 0$ или $4^x - 256 = 0$

$3^{\sqrt{x-5}} = 1 \quad 4^x = 256$

$\sqrt{x-5} = 0 \quad x = 4$

$x = 5$



5 не берем, значение $x_{min} = 6$

$(3x_0 - 2)(x_0 + 2) = (3 \cdot 6 - 2)(6 + 2) = 16 \cdot 8 = 128$

Ответ: 128

определены
 $\sqrt{x-5} \geq 0$
 $x-5 \geq 0$
 $x \geq 5$

17) $3|x+3| = a + |x-4| - 9|x-2| + 4|x+7|$

при $x \geq 0$:

$3x + 9 = a + x - 4 - 9x + 18 + 4x + 28$

$7x = 33 + a$, при $x = 4 \Rightarrow a = -5$
 $x = 2 \Rightarrow a = -19$

при $x < 0$:

$-3x - 9 = a - x + 4 + 9x - 18 - 4x - 28$

$-7x = -33 + a$

$7x = 33 - a$, при $x = -3 \Rightarrow a = 54$
 $x = -7 \Rightarrow a = 82$

Ответ: 5

Шифр 37

Внесите в таблицу номера правильных ответов. В заданиях, в которых отсутствуют варианты ответов, внесите правильный ответ.

1	2	3	4	5	6	7	8	9	10

11	12	13	14	15	16	17	18	19	20

$$18) 9x^2 + 2 \cdot 3x^2 + a = 0$$

$$3^2x^2 + 2 \cdot 3x^2 + a = 0$$

$$D' = 3^2x^2 - a \cdot 3^2x^2 = 3^2x^2(1-a) > 0$$

$$1-a > 0$$

$$a < 1$$

Ответ: 3

20) Всего сырта: $56 \cdot 80\% = 44,8 \text{ кг}$, значит вода: $56 - 44,8 = 11,2 \text{ кг}$.
 тогда, после выпаривания: $x - 11,2 = 0,3x$; где x - масса сырта и
 воды вместе.

$$0,7x = 11,2$$

$$x = \frac{11,2}{0,7} = 16 \text{ кг}$$

масса сырта после: $16 - 11,2 = 4,8 \text{ кг}$. значит всего выпари-
 лено: $44,8 - 4,8 = 40 \text{ кг}$

$$7) \frac{\sqrt{x^2 - 10} - 3x}{6x - x^2 + 16} \geq 0$$

Нули функции:

$$\sqrt{x^2 - 10} - 3x = 0$$

$$x^2 - 3x - 10 = 0$$

$$D = 9 + 10 \cdot 4 = 49$$

$$x = \frac{3 \pm 7}{2}$$

$$x_1 = 5 \quad x_2 = -2$$

Ограничения:

$$6x - x^2 + 16 \neq 0$$

$$x^2 - 6x - 16 \neq 0$$

$$D' = 9 + 16 = 25$$

$$x = 3 \pm 5$$

$$x_1 \neq 8 \quad x_2 \neq -2$$



Кому подходит: 5, 6, 7

Ответ: $5+6+7 = 18$, (1)

$$10) \log_6^2 3 + \frac{\log_6 18}{\log_2 6} = \log_6^2 3 + \log_6 18 \cdot \log_6 2 = \log_6^2 3 + (\log_6 3 + \log_6 2 + \log_6 3) \log_6 2$$

$$\log_6 3 \cdot \log_6 3 + \log_6 18 \cdot \log_6 2$$

~~log~~

$$11) 3^{2x+1} + 27 = 82 \cdot 3^x$$

~~$$3^{2x+1} + 3 = 82 \cdot 3^x$$~~

$$3^{2x} \cdot 3 + 27 = 82 \cdot 3^x$$

$$3^x = t$$

$$3t^2 - 82t + 27 = 0$$

~~log~~

$$D' = 1681 - 27 \cdot 3 \cdot 4 = 1357$$

$$t = \frac{41 \pm 37}{3}$$

$$t_1 = 26 \quad t_2 = \frac{4}{3}$$

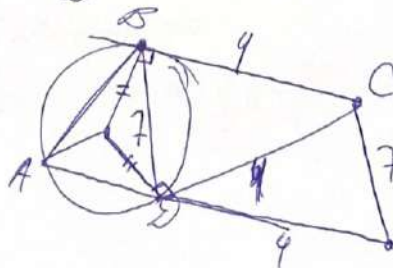
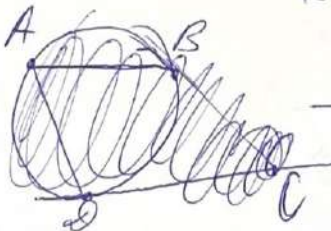
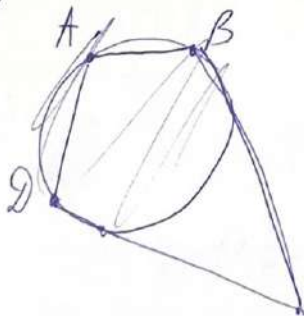
$$3^x = 26 \quad 3^x = \frac{4}{3} = 1,3 = 1$$

$$x \approx 3$$

~~$$x = -1 \quad 3^{-1} = \frac{1}{3} = 0,666$$~~

$$x = 0 \quad 3^0 = 1 \quad \text{Jawab: } 4$$

14



$$13) \text{ Jika } x^4 - \log x = 1$$

$$\text{misal } x = 4 \quad \text{misal } \log x = 1$$

$$4 - \log x = 0$$

$$\log x = 4$$

$$\text{Jawab: } 5 \quad x = 10000$$

$$13) (3^{\sqrt{x-5}} - 1) \cdot (4^x - 256) > 0$$

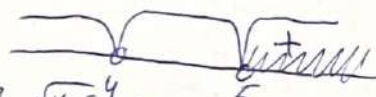
misal $3^{\sqrt{x-5}} - 1 = 0$

$$3^{\sqrt{x-5}} - 1 = 0 \quad \text{misal } 4^x - 256 = 0$$

$$3^{\sqrt{x-5}} = 1 \quad 4^x = 256$$

$$\sqrt{x-5} = 0 \quad x = 4$$

$$x = 5$$



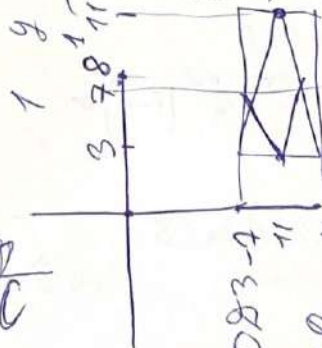
$$\text{Opakur } \sqrt{x-5} \geq 0$$

$$x - 5 > 0$$

$$x > 5$$

$$x = 6$$

$$(3 \cdot 6 - 2)(6 + 2) = 16 \cdot 4 = 64$$

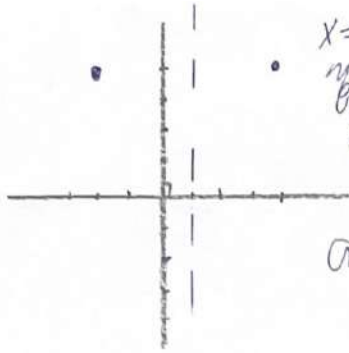


$$\Rightarrow 0 \cdot 3 - 4 = -4$$

$$\frac{16}{8} = 2$$

$$\frac{128}{8} = 16$$

15)



$x=1$, то
наша, потому
все точки распо-
жены слева

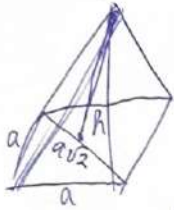
Ответ: 5

16) $V=36$

$V_{2n}=18$

$V_n = \frac{1}{3} S_{осн} \cdot h = \frac{1}{3} \cdot a^2 \cdot h = 18$

$a^2 \cdot h = 48 \Rightarrow a^2 = \frac{48}{h}$



$r = \sqrt{h^2 + \left(\frac{a\sqrt{2}}{2}\right)^2} =$

$= \sqrt{h^2 + \frac{a^2 \cdot 2}{4}} = \sqrt{h^2 + \frac{a^2}{2}} \Rightarrow r^2 = h^2 + \frac{a^2}{2}$

$\sqrt{h^2 + \frac{48}{h}} = \sqrt{h^2 + \frac{24}{h}}$

$a^2 \cdot h = 48$

$h^2 + \frac{a^2}{2} = ? \cdot r^2$

$h^2 + \frac{48}{h} = ?$

18) $9^{x^2} + 2 \cdot 3^{x^2} + a = 0$

$3^{2x^2} + 2 \cdot 3^{x^2} + a = 0$

$9^{x^2} + 2 \cdot 3^{x^2} + a = 0$

$1 - a > 0$

$a < 1$ Ответ: 3

19) 3/4

$$\log_6^2 3 + \log_6^2 18 \cdot \log_6 2$$

$$\log_6 48 \cdot \log_6 6 \quad \frac{1 + \log_6 3}{\log_6 6} = (1 + \log_6 3) \log_6 6 =$$

$$1 + \log_6 3$$

$$② 3|x+3| = a + |x-4| - 9|x-2| + 4|x+7|$$

nyu $x \geq 0$:

$$3x + 9 = a + x - 4 - 9x + 18 + 4x + 28$$

$$7x = 33 + a$$

nyu $x \leq 0$

$$-3x - 9 = a - x + 4 + 9x - 18 - 4x - 28$$

$$-7x = -33 + a$$

$$7x = 33 - a$$

$$18 + 28 = 46 - 4 = 42 - 9 = 33$$

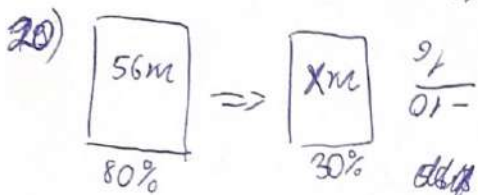
$$\sqrt{h} = \frac{1}{3} h \cdot \text{Socok} = 18$$

$$h \cdot \text{Socok} = 48 \quad r^2 = h^2 + \frac{\text{Socok}^2}{2}$$

~~21~~ - 2033 - $\frac{50x - 9 + 5z - 25 + 10 + 15}{-51 + 0 - 52 +}$

$$2 \sin x - 5 \cos x$$

$\frac{1}{2}$



~~56m~~
~~80%~~
~~56m~~
~~30%~~
~~56m~~
~~80%~~
~~56m~~
~~30%~~

$$\frac{56}{8} = 4 \quad \frac{56 \cdot 0}{44,8}$$

$$\frac{112}{3} = 37,33$$

$$0,336$$

$$28 = 33 + a$$

$$a = 28 - 33 =$$

jumlah beras: $56 \cdot 80\% = 56 \cdot 0,8 = 44,8 \text{ kg}$
 jumlah beras: $56 - 44,8 = 11,2 \text{ kg}$

$$14 - 33 = -19$$

~~11,2 + x = 0~~ ~~11,2 - x = 11,2~~ $\frac{x - 11,2}{0,3} = x$

$$x = 0,336 + 0,3x$$

$$0,7x = 0,336$$

$$x = \frac{3,36}{7} = 0,48$$

$$x - 11,2 = 0,3x$$

$$0,7x = 11,2$$

$$x = \frac{112}{7} = 16 \text{ kg}$$

$$-21 \quad a =$$

$$\frac{33}{+21}$$

$$\hline 54$$

$$x - 11,2 = 16 - 11,2 = 4,8 \text{ kg jumlah}$$

$$16 \cdot 0,3 = 4,8 \text{ kg} \quad \text{Jawab: } 44,8 - 4,8 = 40 \text{ kg}$$

$$-49 = 33 - a$$

$$\frac{50}{+32}$$

$$\hline 82$$

$$\log_6^2 3 + \log_6 18 \cdot \log_6 2$$

$$\log_6 3 \cdot \log_6 3 + \log_6 18 \cdot \log_6 2$$

$$\log_6 3 + \log_6 3$$

$$\log_6 3 + (\log_6 6 + \log_6 3) \cdot \log_6 2$$

$$\log_6^2 3 + (1 + \log_6 3) \cdot \log_6 2 =$$

$$\log_6^2 3 + \log_6 2 + \log_6 3 \cdot \log_6 2 \quad / \quad \frac{1}{\log_6^2 2}$$

$$\log_6$$

$$\log_6 3 \cdot \log_6 3 + \log_6 2 + \log_6 3 \cdot \log_6 2$$

$$\log_6^2 3 + \log_6 6 \cdot \log_6 4$$

$$\log_6^2 3 + \log_6 4 = \log_6 12 \cdot \log_6 12 = \log_6^2 12$$

$$\begin{aligned} x^2 &= 1 & x &= 1 & x^2 &= 3 \\ x &= 0 & x &= 1 & & \\ 0.2 \cdot 0.3 & & & & & \\ 0.3 \cdot 3 & = & & & & \\ \sqrt{3} &= 1.2 & & & & \\ 3 \cdot 0.5 &= 1.5 & & & & \end{aligned}$$

$$\log_6 6 + \log_6 3$$

$$\log_2 2 + \log_2 3$$

$$\log_6 2 = \log_6 2$$

$$1 + \log_2 3$$

$$\begin{aligned} x^2 - 6x - 16 &= 0 \\ \Delta &= 91 \end{aligned}$$

2) $a = \frac{1}{\sqrt{8}} + \frac{1}{\sqrt{3}}$ $b = \frac{1}{\sqrt{8}} - \frac{1}{\sqrt{3}}$

$a^3 - b^3 = (a-b)(a^2 + ab + b^2) = (a^2 + ab + b^2) = a^2 + ab + b^2 = 160 + 32 = 192$
 $a^3 + a^2b + ab^2 - a^2b - ab^2 - b^3 = a^3 - b^3 = a^3 - b^3 = 192$
 $4 \cdot 192 =$

$a^3 - b^3 = \left(\frac{1}{\sqrt{8}} + \frac{1}{\sqrt{3}}\right)^3 - \left(\frac{1}{\sqrt{8}} - \frac{1}{\sqrt{3}}\right)^3 = \left(\frac{1}{8} + \frac{1}{3}\right)^2 \left(\frac{1}{\sqrt{8}} + \frac{1}{\sqrt{3}}\right) - \left(\frac{1}{8} + \frac{1}{3}\right)^2 \left(\frac{1}{\sqrt{8}} - \frac{1}{\sqrt{3}}\right) = \frac{2}{124} + \frac{1}{3} \left(\frac{1}{8} + \frac{1}{3}\right) = \frac{1}{8\sqrt{8}} + \frac{1}{8\sqrt{3}} + \frac{2}{\sqrt{92}} + \frac{2}{\sqrt{92}} + \frac{1}{3\sqrt{8}} + \frac{1}{3\sqrt{3}} =$

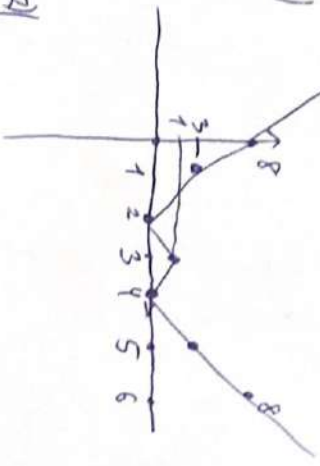
$\frac{1}{8\sqrt{8}} + \frac{1}{8\sqrt{3}} + \frac{2}{\sqrt{92}} + \frac{2}{\sqrt{92}} + \frac{1}{3\sqrt{8}} + \frac{1}{3\sqrt{3}} =$

2) $\left(\frac{y-(xy)}{y^{\frac{1}{2}}-(xy)^{\frac{1}{2}}} + x^{\frac{1}{2}}\right) \frac{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}}{x^{\frac{1}{2}}-y^{\frac{1}{2}}} = \frac{y-(xy) + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} = \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} = \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} = \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} =$

$= \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} + \frac{(xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} = \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} + \frac{(xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} = \frac{y - (xy)^{\frac{1}{2}} + (xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} + \frac{(xy)^{\frac{1}{2}} - y^{\frac{1}{2}} \cdot x^{\frac{1}{2}}}{y^{\frac{1}{2}}(xy)^{\frac{1}{2}}} =$

9. $y = |x^2 - 6x + 8|$

$x^2 - 6x + 8 = 0$
 $\Delta = 36 - 32 = 4$
 $x = \frac{6 \pm 2}{2} = 2, 4$
 $2 \cdot 4 \cdot x_1 = 4 \quad x_2 = 2$
 $y = |x - 4| |x - 2|$



$\frac{a^3 - b^3}{(a-b)^3} = \frac{(a-b)(a^2 + ab + b^2)}{(a-b)^3} = \frac{a^2 + ab + b^2}{a^2 - 2ab + b^2} = \frac{a^2 + ab + b^2}{(a-b)^2}$

$\frac{1}{8} + \frac{1}{3} - 2 \cdot \left(\frac{1}{8} \cdot \frac{1}{3}\right) + \frac{1}{8} - \frac{1}{3} = \frac{3+4}{8-3} = \frac{7}{5}$

$a^2 = \frac{1}{8} + \frac{2}{124} + \frac{1}{3}$
 $b^2 = \frac{1}{8} - \frac{2}{124} + \frac{1}{3}$

Problem: 5

$$x^6 + 5x^3 - 6 = 0$$

$$x^3 = t$$

$$x^3 = -6 \quad x^3 = 1$$

$$t^2 + 5t - 6 = 0$$

$$x_2 = \sqrt[3]{-6} \quad x_1 = 1$$

$$D = 25 + 6 \cdot 4 = 49 \quad x = (-6)^{\frac{1}{3}} \quad x = 1$$

$$t = \frac{-5 \pm 7}{2}$$

$$t_1 = -6, \quad t_2 = 1 \quad \left((-6)^{\frac{1}{3}} + 1 \right)^6 = (\sqrt[3]{-6})^2 = 36 + 1 = 37$$

④ $\frac{x(x+4)}{x^2-9} = \frac{5}{5x+9}$ $\frac{x^2+4x}{(x-3)(x+3)} = \frac{5}{5x+9}$ $\frac{2x-10-x+9}{(x-3)(x+3)} = \frac{2}{x+9} - \frac{1}{x+5}$ $\left. \begin{array}{l} \text{знаменатели одинаковые} \\ x \neq 5; x \neq 9 \end{array} \right\}$

$$x^2 + 4x - 5 = 0$$

$$D = 16 + 5 \cdot 4 = 36$$

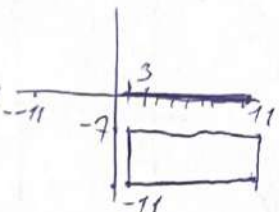
$$x = \frac{-4 \pm 6}{2}$$

$$x_1 = -5 \quad x_2 = 1 \quad \text{Ответ: } -5 + 1 = -4$$

⑤ $|x-7| + |y+11| \leq 4$

$$y=0 \quad x \in [11; 3]$$

$$x=0 \quad y \in [-15; -7]$$



$$a = 11 - 3 = 8$$

$$b = |-11 + 7| = 4$$

$$S = a \cdot b = 32$$

⑥ $5^{-3} \sqrt{1-\frac{x}{5}} = \left(1-\frac{x}{5}\right) \left(1-\frac{x}{5}\right)^{\frac{1}{2}}$

$$5^{-3} = \left(1-\frac{x}{5}\right) \sqrt{1-\frac{x}{5}}$$

$$5^{-3} = \left(1-\frac{x}{5}\right)^{\frac{3}{2}}$$

$$\sqrt[3]{5^3} = \sqrt[3]{5^3 \cdot 5^3 \cdot 5^3} \quad 5^3 = 25^{\frac{1}{5}} \quad 125 = \sqrt[5]{5^6}$$

$$\frac{1}{5^3} = \frac{1}{25^{\frac{3}{2}}}$$

$$25^{-1.5} = \left(1-\frac{x}{5}\right)^{1.5}$$

$$\frac{1}{25^{1.5}} = \left(1-\frac{x}{5}\right)^{1.5}$$

$$\left(\frac{1}{25}\right)^{\frac{3}{2}} = \left(1-\frac{x}{5}\right)^{\frac{3}{2}}$$

$$\frac{1}{25} = 1 - \frac{x}{5} \quad \frac{x}{5} = \frac{1}{25} - 1$$

$$\frac{x}{5} = \frac{24}{25}$$

$$\frac{5x}{25} = \frac{24}{25}$$

$$5x = 24 \quad x = \frac{24}{5} = 4.8$$

$$\frac{1}{5^6} \cdot \left(1 + \frac{x}{5}\right) = \left(\frac{x}{5} - 1\right)^4$$

$$\frac{1}{5^6} \cdot \left(1 - \frac{x}{5}\right) = \left(1 - \frac{x}{5}\right)^{x^3}$$

$$\frac{1}{25} = 1 -$$

$$\text{Ответ: } 3$$