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Kf_klj± 4, 5, 6, 7
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л кли л з з гли ръ C#

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using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApplication1
{
class Program
{ static void Main(string[] args)
{ Console.WriteLine("Iþ_l ");
double x, y, z;
&QVREULWHLQH\bl_i_þh_qbkeh
x = Convert.ToInt16(Console.ReadLine());
&QVREULWHLQH\bl_\hþ_qbkeh

```
            y = Convert.ToInt16(Console.ReadLine());
            z = x + y;
            Console.WriteLine("Kol      qbk_e YgZ    ={0}",s);
            Console.WriteLine("Kol      qbk_e YgZ    ="+s);
            Console.ReadLine();
          }
        }
      }
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1) [-2; 2], y = |x|+1
2) [-5;-1], y = |1/x + 0.6|
3) [-1; 2], y = sin|Pi*x|
4) [-2; 1], y = cos|Pi*x|

E[hfjgh_agZylb_‹ **5-6.**

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1) y(x) = ctg(x/(x-1))
2) y(x) = ln(sin(1/x))
3) y(x) = sqrt(tg(x))
4) y(x) = ln(sqrt(1-x))

7-8.

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1) $Y^3\ X^2 + 3\ Y^3\ X = 4$

2) $Y^5\ X - 2\ Y^5\ X^2 = 3$

3) $Y^3\ X^3 + 2\ Y^3\ X = 3$

4) $Y^5\ X^3 - 3\ Y^5\ X^3 = 4$

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EZhZhigh_aZylb_‹ **9-10.**

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1) x = cos(x)
2) ln(x) = -x
3) sin(x) = x - 1

4) Exp(x) = x + 2

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>baZg_ jk\yau\Zl]bjeygZm nhgZdh\ Ij`qzf\ke_^aZljm]eufnhgZdhfhg h`_lZf klblvd\Zguc bebnb]mjgucaZ\Zguf - lhevdhdjm]eucZZb]m j guf - ex[hcZhevdbf`kihkh[Zbaeg_h`_lk\yaZv1nhgZ bdh\"

;b[ebhl_dZZkklZey_l dgb]b gZhedm IZ__lheklhc dgb]b hg h`_l ihkl Z\blv lhgdmxbebkj^gxxiZ__kj^g_c - lheklmxbeblhgdmxZ__lhgdhc - lhevdhkj^gxx Zhevdbf`kihkh[Zb [ebhl_dZZh`_lZkklZblv1dgb]"

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EZhjZigh_aZylb_‹ **1-12.**

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1) $X^2 + 5*Y^2 = a$
2) $3X^2 + Y^2 = a$
3) $X^2 + Y^2 + Y = a$
4) $X^2 + X^2 + 2Y = a$

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1) $\overline{(X \text{ and } Y)}$ and (X or Y) = X xor Y

2) $\overline{(X \text{ or } Y)} = \overline{X}$ and $\overline{Y}$

3) $(\overline{X}$ and $\overline{Y})$ or (X and Y) = X xor Y

4) (X xor Y) and $\overline{X}$ = X and Y

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EZhZjgh_aZylb_‹ **13-14.**

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EZhZjgh_aZylb_‹ **15-16.**

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EZhZhgh_aZylb_‹ **-5.**

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6-8.

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8-20.

р кл жррцд мкгмй

12. [illegible] Hj^eblv b_jbx ljnh\ h[bevghc dhfjbb kaZv kibkhd ljnh\dhfjbb Ihkqblv h[smxqbke_gghklv deb_glh\Ih_klb kh]bh\dmljnh\ gZhkgh_ jf_jZhg_glkdhc ieZu GZlb ljn \ dhfjbb khhl_lkl\mxs bc ajghfnbZhgmijlh\

13. [illegible] AZjmablv nmjhg hij_^e_ggh]h h[t_fjmahgZij_^e_ggmx kmfn ba jebqguo kh]h\ dhn_ gZhysboky \ lhfn`_\ jguo nbabq_kdbo khklhygbyo a_jh hehlucZl\hbfc\[gdZb iZ_lbdZMqblu\v h[t_flhn_\f kl_k miZh\dhc Ih_klb kh]bh\dmlh\jgZkgh_khhlghr_gby p_gu b_kZGZlb lh\jnmjhg_ khhl_lkl\mxsbcajghfnbZhgmijlh\dq_kl\Z

14. [illegible] Ihyhlh\blv b]h\mx dhfjZn ey ^l_c jguo \hajZlguo]jmii B]jmr_d hegh [ulv nbdkbh\jgh_ dhebq_kl\h \ ij_^eZ \u^e_gghc kmfn ^g_] >hegu \klj_qv ky b]jmrdb hkl_gguo]jmii g -jf_gvdb_ kj_gb_ b [hevrb_ fbgu dmdeu fyqb dm[bdb Ih_klb kh]bh\dm b]jmr_d \ dhfjZ_ ih hghfn ba ijlh\GZlb b]jmrdb\dhfjZ_khhl_lkl\mxsb_ajghfnbZhgmijlh\

15. [illegible] Hj^eblv fgh`_kl\h b kmfn gZh]h\uo \uieZnbabq_kdh]h ebpZaZ]h^k mq_lhfnohn\ k hkgh\gh]h b hihegbl_evgh]h f kl jnlu Zhjkdbo \hagZfgbc ih bfns_kl\Zhemq _gby \ ihjd ^g_guo kmfb bfns_kl\Z_j \hn\ ba -aZ]jbpuev]hlgZl_cbZ_bZvgmxihfsvIh_klbkh]bh\dmgZh]h\ihkmf

16. [illegible] Khfjh\v gZhjij_ehe`_gbc deb_glm ih \dejebqguo [jdh\ ey hilbZvgh]h \u[hjMqblu\v \h afghklv hkhqgh]h kgylby dj_blZb \beb ihiheg_gby J_bah\vihbkdbkh]bh\dm\dejZ\

17. [illegible] Khfjh\v gZhj ij_ehe`_gbc deb_glm ih \u[hjm lmjklbq_kdhc iml_\db jebqgh]h lbiZlu o wdkdmjkbb e_q_gb_ rhibg] djmba b l^ ey hilbZvgh]h \u[hjMqblu\v \hafghklv \u[hjZjkih]Zblgby b qbkeZ g_cJ_bah\v\u[hjpkh]bh\dmiml_\hd

18. [illegible] Khfjh\v gZhjij_ehe`_gbc deb_glm ih p_e_\ufdj_blZjebqguo [jdh\ ey hilbZvgh]h \u[hjMqblu\v \hafghklv hkhqgh]h ih]Z_gby dj_blZ b\bebm_ebq_gbydj_blghcebgbbJ_bah\v\u[hjpihbkddj_blZ

Ejhjhigh_ajylb_ **6-7.**

рнлі дмрцйs нц

- [illegible]
- [illegible]
- [illegible]
- [illegible]

ajhlZvbj_bah\vbgb\b^mZvghihh\[gucih_dlhZ ajhlZv ih]fm jpkh\gby]jbq_kdbo ipflb\h\ s[hj]jbq_kdh]h ipflb\Zkms_kl\blv k ihfsvx we_fglZmijZe_gby ***ListBox hihajhZ Case***.

>h[jblv \ ih]fm jpkh\gby]jbq_kdbo ipflb\h\ \ hafghklv baf g_gby p_lZnhgZnhfn ***BackColor*** k ihfsvx i_j[hjklgguo dhgklgl p_l ZLZ`_ ij_^mkflj_lv nmgdpbx \u[hjp_lZey jpkm_h]h]jbq_kdh]h ipflb\Zs[hj hjbah\vibihfsbwe_fglh\mijZe_gby ***ListBox.***

Ejhjhigh_ajylb_ **8-9.**

лігhмгйs нц

- [illegible]
- [illegible]

- jsn ebkl_gguobo\hcguo^j_\v_\
- jsn
- jsn
- jsn

ZjZhlZvbj_eZbah\Zvbgb\bmeZvghihh\[gucih_dlh\Z
kdjm`gbbij_f\lh\i_j_g_]hbaZ_]hieZh\ bflbjh\Zv\b`gb_

- jsn
- jsn
- jsn
- jsn

ZjZhlZvbj_eZbah\Zvbgb\bmeZvghihh\[gucih_dlh\Z

EZhjZhigh_aZylb_ **10-13.**

гкгвглй ррцґ і джґ

л йн йжґt г й s з й ррцґ

jsn

jsn jsn jsn

-fgh`kl_gguo hi _gbc h[t_bg _gb_
fgh`kl\i_j k_q_gb_fgh`kl\ghklv b kbf_lhq_kdZghklvfgh`kl\J _amevlZu
hi_gbc\u_klb\\b^_lZebp[ZuZguogZvdgZ

EZhZhigh_aZylb_‹ **7-8.**

гжнл гъ г р мелй рг г кйгм ррцj

Ajh]Zgh

AZjh]Zgh \Zv khJbh\dm\ZZhlZguo [ZZZguo ih klhe[pZZe bpu
ZZhlZvf_lhu\nbevlZgbbZguobihbkdZguoihZebqgufdexqZ

ZZhlZv aZjhku d [Z_ZguokhaZghc kj_k\lZ C k ihf_svx oZg bf_io
ih_p^mJ_ebah\ZvaZjhkugZ h[Xe_gb_mZ_gb_khJbh\dmbihbkdZguo

EZhZhigh_aZylb_‹ **9-10.**

рг ъвцj L

Ajh]Zgh

ZZhlZvfgh]hlZebqgmx[ZmZguokj_k\lZ Ckh^jZmx -lZebpih -
ihe_c\dZc AZhegblv [Zm ZguokhhI_lkl\mxs_c bgnhZb_ c - a Zibk_c
e_klb kh^jbf_ [Zu ZguokguZhjn hjZbah\Zv mijZe_gb_ZgufI k ihf_svx
klZZghc iZ_eb gZb]Zbb GhjZbah\Zv d i_jhc b \lhJhc ghjZvgufnhjZb
^ghjZbah\ZvaZZhlZgmx[ZmZguoAZj]Zgh\Zv khJbh\d m\ZZhlZguo
[ZZZguoih klhe[pZZebpuZZhlZvf_lhu\nbevlZgbbZ gguob ihbkdZguo
ihZebqgufdexqZ

EZhZhigh_aZylb_‹ **11-12.**

= клймц р L

Ajh]Zgh

ZZhlZvfgh]hlZebqgmx[ZmZguokj_k\lZ Ckh^jZmx -lZe bpih -
ihe_c\dZc AZhegblv [Zm ZguokhhI_lkl\mxs_c bgnhZb_c - a Zibk_c
e_klb kh^jbf_ [Zu ZguokguZhjn hjZbah\Zv mijZe_gb_ZgufI k ihf_svx
klZZghc iZ_eb gZb]Zbb J_ebah\Zv ihklu_ b kehgu_ aZjhku dZebqguf lbiZ
ihe_c[ZuZguokihf_svxyaudZ SQL.

EZhZhigh_aZylb_‹ **13-14.**

мрй ц в фгн ц грi йлз гг

Ajh]Zgh

ZZhlZv ih_dl kh^jbc]eZgh_fgx Imgdlufgx hegu [ulv gZ\ Zgu
AZqZ AZqZ Ihp \u[hj_ imgdlZfgx gZ]eZghc nhf _ ih_dlZhegh
hlZvky mkeh\b_ aZqb bZkiheZZvky dghidZr_gb_ Ih gZbx gZghid_a ZqZ
hegZZmkdZvky gZbkiheg_gb_‹dZ_kl_aZq\aylv ih hghc aZ_ba\hkvf[ehdh\
ij_u^ms_]hk_fklZ

ZZhlZv ih_dl rbnJh\Zby Zgguo k bkihevah\Zb_frbnjZP_ajZ GZih j f
\\hf^lky rbnjm_f_khh[s_gb_baZlkyagZ_gb_dexqZ-Zb_gZghidmRbnJh\Zb_
ip\hf^ldaZbnJh\d_khh[s_gb_Z - gZghid_>_rbnJh\Zb_ d_]hJrbnJh\d_fhegh
k^eZv\jZebqguol_dklh\uoiheyo Kh[s_gb_f_lkh^jZvjZebqgu_[md\uhghJh
ba ZnZblh\ - klJhqgu_ b aZeZgu_ Ij_^mkfhlj_lv\ih_dl_ rbnJh\Zb_ gZmkkdhfb
ZJebckdhfyaud_ - fhghkihf_svx Zguoihe_c\dh^ih]ZhnhfJlvrbnJh\Zb_
\\b^jZebqguofhlh^\

EZhZhigh_aZylb_‹ **15-16.**

З н й ц в фгн ц грi йлз гг)У гi л й рг ррцj

Ajh]Zgh

ZZhlZv ih_dl rbnJh\Zby Zgguo k bkihevah\Zb_f rbnJZhs`g_Z
Ij _^mkfhlj_lv rbnJh\Zb_b^rbnJh\Zb_Zgguo ey klJhdh\h]h khh[s_gby aZbkZgh]h

10. [illegible]
11. [illegible]
12. [illegible]
dh[illegible]c"
13. [illegible]
14. [illegible]
15. [illegible]
16. [illegible]
17. [illegible]
18. [illegible]
19. [illegible]
20. [illegible]
21. [illegible]
22. [illegible]
23. [illegible]
24. [illegible]
25. [illegible]
26. [illegible]
27. [illegible]
28. [illegible]
29. [illegible]
[illegible]
30. [illegible]
31. [illegible]
32. [illegible]
33. [illegible]

94.
95.
96.
97.
98. *If*
99.
100.
101.
102.
103.
104.
105.
106.
107. C#?
108.
109.
110.
111. *While*?
112.
113. *While*
false?
114. *while*
115.
116. C#?
117. *Do while*
118. *Do while*?
119.
120. *Do while*
121. *Do while*
pbdeZ
122. *While*?
123. *Do while*?
124. *While*
125. *Do while*
126. *While*?
127. *Do while*?
128.
129.
130. Turbo
Pascal?
131. *for*?
132.
133.
134. *for*?
135. *for*?
136.
137. *for*
138. *for*

Zgghf\mf_jghkkb_gZlb\k_we_fgluy \eyxsb_kygZ[hevrbbkj_b
k\hbog_ihkj_kl_gguok hk_^ck_jomkgbamke_\Zkij
AZgblv \agZghcklhd_ihke_g__\oh^gb_keh\Zq_ke h\hmlh

Jl_jbbhp_gb\Zbyih_jhqghcjhlu

1. Z

ii	Kmdlmjgyqkvdhglhevghcjhlu	Debq_kl\h[Zeh\ *)
1	IZbevgh j_Zbah\g dZc f_lh^ j_r_gby	[Ze
2	:gZb aj_amevlZh\	[ZeZ

(*) kahgZby\[ZeZ

2. Z

ii	Hl_gdZ	Debq_kl\h[Zeh\
1	Hebqgh	4,75-5
2	Gjhrh	3,75-4,5
3	Mh\e_l\hjl_evgh	3-3,5
4	G_mh\e_l\hjl_evgh	f_g__

k_f_klj

1. Z b
2. ± wlhkljmdlmjh\Zguclbi Zguokhklhysbcbanbdkbjh\Zgh]h qbkeZve_fglh\bf_xsbohbgblhl`_lbi"
3. Z
4. Z
5. Z
6. Z
7. Z
8. C#?
9. Zihe Zklky\iZlbwe_fgluhghf_jh]hZkb\Z
10. Z
11. Z
12. Z C#?
13. Z
14. Z
15. Z
16. Z
17. Z
18. Z
19. Z
20. Z
21. Z
22. Z
23. Z
24. Z
25. Z
26. Z
27. Z C#?

28. *ReadLine(* *x* p_ebdhf
29. *WriteLine(x* *x* p_ebdhf
30.
31.
32.
33.
34.
35.
36.
37.
38.
39. C#?
40.
41. C#?
42. C#?
43.
44.
45.
46.
47.
48.
49.
50.
51.
52.
53.
54.
55. *n*-
56.
57.
58.
59.
60.
61. kihkh[u\u\hZve_fglh\\mfghjhkkb\Z
62.
63.
64.
65.
66.
67.
68. .. 255?
69.
70.
71.

72.
73.
74. Turbo Pascal?
75. *string* klj mdlmjbh\ gguf bihg guo"
76. *string*?
77.
78. *string*?
79.
80.
81. C#?
82. *string* h gh ihf klblvd h_ -lhdhgdj lgh_ag q_gb_"
83.
84.
h[ty\e_gh\hibkg bb"Qlhij bahc^l\wlhk kemqZ"
85. *string lh qf m hg g h mfheqg bx"*
86.
87. *string* h]bq_gh^ghf gh mk kb\mkbf heh\ *array [0..n] of char*?
88. *string* hlh^ghf gh]h k\ b f heh\ *array [0..n] of char*?
89.
90. *string"D h\bo ij hjll"*
91.
92.
93.
C#?
94. *Length*?
95. + bd hchi_ b_c_z h ha g blv"
96. *Copy*?
97. *Delete*?
98. *Insert*?
99. *IndexOf* bd h\hag q_gb__z mf_ glh\"
100. *CompareTo*?

l_hj_lbq_kdbo\hijkh\

1.

ii	L_hj_lbq_kdbc\hijhk	ebq_kl\h[eh\ *)
1	>g dbc hl_l gZihklZe_gguc \hijhk	[e
2	>g _gmluc hl_l gZ\hijhk k Zgeba hf j_amevl h\	[eZ

(*) ka h g by\[eZ

2. 3 [eh\ ij hl_l_g \hijhkZ \ij lb\gh kemqZ\uklZey_lky g©_aq_gh^a

A g by ey ye h j g uoa g ylbc

A g by ey e h j g uo b kl klhyl_evghc j h l h[j pu j_r_gbc hkgh\guo lbih\uo a ij lbdb l ` _ f s_gu \ kbkl_f bklg bhggh]h h[mq_gby k e=M (www.moodle.smolgu.ru).

1.

1		
2		

2.

6

A

(www.moodle.smolgu.ru).

1.

1		
2		

2.

7

A

(www.moodle.smolgu.ru).

1.

1		
2		

2. [illegible]

[illegible]

1. Hesablayın $\dfrac{1+\sin\sqrt{x+1}}{\cos(12y-4x)}-\left|x^2+y^3\right|$.

2. Girişdə verilmiş qbkeh [illegible] qbkehf

3. Girişdə verilmiş qbkeh Q hesablayın kmfn

ihfsvxpbdeKij^mkeh\b_f

4. Hesablayın $f(x)=2\cdot\sin^2 x+3x$ gZ hlj ad_> *a, b* Q *h*.

5. Girişdə verilmiş [illegible] Ihf gylv f klZ i_juc iheh bl_evguc b ihke_ gbcgZf gvrbcwe_f gluKkb\ Z

6. GZlb \ Zgghf^mf_ghfKkb_ Zf_Z $n\times m$ dhebq_kl\h b kmfn we_f glh\ dZguoaZghfmqbkemDu_klbbof klhiheh`gb_

7. AZgblv \ agghc klhd_ i_jh_ \oh^gb_ keh\Zg© iZbevgh[a] ke h\hf iZbevgh[a]

[illegible] _gb\Zby aZ_lghc dhglhevghcZhlu

1. Z

ii	Kmdlmigy qKlvdhglhevghcZhlu	Debq_kl\h[Zeh\ *)
1	IZbevgh j_Zbah\Z, dZc f lh^ j_r_gby	[Zee
2	:gZbaj_amevlZh\	[ZeeZ

(*) kahg`Zby\[ZeeZ

2. Z Z

ii	hl_gdZ	Debq_kl\h[Zeh\
1	Hebqgh	4,75-5
2	Gjrh	3,75-4,5
3	Mh\e_l\hhl_evgh	3-3,5
4	G_mh\e_l\hhl_evgh	f g__

[illegible] _cihemq_gbyaZ_lZ

[illegible]

-hl] \g_k_guhiheg_gbyihdZhf_dlhZ -hl 30.04.2020).

>eyihemq_gbyaZ_lKlm^glhe`_g

- Z
- Z ;
- Z gZZ_lghcdhglhevghcZhl_ .

5 k

[illegible]

14.
15.
16.
17.
18.
19.
20.
21.
22.
23.
24.
25.
26.
27.
28.
29.
30.
31.
32.
33.
34.
35.
36.
37.
38.
39.
40.
41.
42.
43.

A

1. $$s = \frac{1}{3^2} + \frac{1}{5^2} + \frac{1}{7^2} + \ldots + \frac{1}{(2n+1)^2}.$$

2.

3. $$s = 1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \ldots + (-1)^n \cdot \frac{1}{2^n}.$$

4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.

15.

42. [illegible]
43. [illegible]
44. [illegible]
45. [illegible]
46. [illegible]
47. [illegible]
48. [illegible] $n \times m$ [illegible] we_fglubhij^eblvbof_klhiheh`gb_
49. [illegible] $n \times m$ [illegible]
50. [illegible]
51. [illegible]
52. [illegible] $n \times n$ \uqbkeblv kmfm b hij^eblv qbkeh i hehbl_evguowe_fglh\gZhysbokygZeZghcbZhgZvx
53. [illegible] $n \times m$ [illegible] we_fgluih\haZlZbx
54. [illegible] $n \times m$ we_fglZguc g [illegible] kdhevdhZhg\klj_qZlkyb\u_klb_]hf_klhiheh`gb_
55. [illegible] hlkhJbJh\Zv ih \haZl Zgbx we_fglu gZhysb_kygZeZghcbZhgZb
56. [illegible] $n \times m$ ihf_gylvf_klZ\lhjmxbij^hke_ ^gxx klJhdb
57. [illegible] $n \times m$ ihf_gylv f_klZi_juc b ihke_^bc klhe[_p
58. [illegible] $n \times n$ gZZhkh\ihqZh\hcklj_ed_b\ u_klb j_amevlZgZvdZ
59. [illegible]
60. [illegible]
61. [illegible]
62. [illegible] lg ± keh\hf©kgZ
63. [illegible]
64. [illegible] ogZ
65. [illegible] [illegible]nkkdbokeh\ZaZghcklJhdb
66. [illegible]
67. [illegible]
68. [illegible] lg ± keh\hf©kgZ
69. [illegible]
70. [illegible] ogZ
71. [illegible]

72. [illegible] yk
73. [illegible]
74. [illegible]
75. [illegible]
76. [illegible]
77. [illegible]
78. [illegible]
79. [illegible] f
80. [illegible]

[illegible]

1. K[illegible]
2. [illegible]
3. [illegible]

[illegible]

1. [illegible]

ii	[illegible]	[illegible]
1	L_hj_lbq_kdbc\hijhk	[Z eeZ
2	[illegible]	[illegible]
3	[illegible]	[illegible]

(*) [illegible]

2. [illegible]

ii	[illegible]	[illegible]
1	[illegible]	4,75-5
2	[illegible]	3,75-4,5
3	[illegible]	3-3,5
4	[illegible]	[illegible] 3

7 [illegible]

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]
10. [illegible]

[illegible]

10. [illegible] kj_kl\Z &
kh^_mx - ihey _gh]h l biZ\ d_c l_ebp_ A_negblv [_m _guo
ihba\hevghc bgnh_b_c - a_k_c k]_g_h]h\Z a_kb kemq_guf h[_f
e_klb kh^_h_ [_u _guo gZnhfm hj_bah_v mi_e_gb_ _gub k
ihfsvxkl__ghci_ebg_]_bb
11. [illegible] kj_kl_&kh^_mx
3- ihey _gh]h lbiZ\ d_c l_ebp_ A_negblv [_m _guo ihba\hevghc
bgnh_b_c - a_k_c k]_g_h]h\Z a_kb kemq_guf h[_f e_klb
kh^_h_ [_u _guo gZnhfm hj_bah _v mi_e_gb_ _gub k ihfsvx
kl__ghci_ebg_]_bb
12. [illegible] kj_kl_&kh^_mx -4
ihey_gh]hlbiZd_c l_ebp_A_negblv[_m_guoihba\hevghcbgnh_b_c
(25- a_k_c k]_g_h]h\Z \ a_kb kemq_gufh[_f e_klb kh^_h_ [_u
_guo gZnhfm hj_bah_v mi_e_gb_ _gub k ihfsvx kl__ghc i_eb
g_]_bb
13. [illegible] b [_ _guo ©_]dh\u_Zhf[beb[a] ih
klhe[p_l_e bpu _hlZv f_l hû nbevl_bb _guo b ihbkdZ_guo ih
_ebqgud_exq_
14. [illegible] ©_]dh\u_Zhf[beb[a] kha_ghc kj_kl_&
ihfsvxo_ bfuoihp_^mj_ebah_v a_nku g_[_e_gb_m_gb_kh_bh\dm
bihbkd_guo
15. [illegible] b [_ _guo ©dh\u_ l_e_nhgu[a] ih
klhe[p_l_e bpu _hlZv f_lhû nbevl_bb _guo b ihbkdZ_guo ih
_ebqgud_exq_
16. [illegible] ©dh\u_ l_e_nhgu[a] kha_ghc kj_kl_&
ihfsvxo_ bfuoi hp_^mj_ebah_v a_nku g_[_e_gb_m_gb_kh_bh\dm
bihbkd_guo
17. [illegible] b [_ _guo ,@lh_ l_ogbd_ ih
klhe[p_l_e bpu _hlZv f_lhû nbevl_bb _guo b ihbkdZ_guo ih
_ebqgud_exq_
18. [illegible] ,@lh_ l_ogbd_ kha_ghc kj_kl_&
ihfsvxo_ bfuoihp_^mj_ebah_v a_nku g_[_e_gb_m_gb_kh_bh\dm
bihbkd_guo
19. [illegible] b [_ _guo ©]kf_gu[a] ihklhe[p_
l_e bpu_hlZvf_lhûnbevl_bb_guobihbkdZ_guoih_ebqgud_exq_
20. [illegible] ©]kf_gu[a] kha_ghckj_kl_&ihfsvx
o_ bfuoihp_^mj_ebah_v a_nku g_[_e_gb_m_gb_kh_bh\dm b ihbkd
_guo
21. [illegible]
[illegible]
b [illegible]
22. [illegible]
l j _[illegible]
[illegible]
23. [illegible] RSA Ij _^mkfhlj_lv
rbnh_b_b^rbnh_b_guo^eyklhdh\h]hkhh[s_gbya_ bk_gh]hg_ jmkkdhf
b _]ebckdhfyaud_
[illegible]_pwda_gZbhggh]h[be_l_

1. [illegible]
2. [illegible]
3. [illegible]

1. [illegible]

[illegible]	[illegible]	[illegible]
1	L_hj _lbq_kdbc\hijhk	[illegible]
2	[illegible]	[illegible]
3	J[illegible]	[illegible]

(*) [illegible]

2. [illegible]

ii	[illegible]	[illegible]
1	[illegible]	4,75-5
2	[illegible]	3,75-4,5
3	[illegible]	3-3,5
4	[illegible]	[illegible]

[illegible]

1. [illegible] = L_ogheh]bb b [illegible] / B = =gb^gdhN N I[illegible] X N_hj\ ± [illegible] ± 235 k ± [illegible] ± ISBN 978-5-534-02816-4. ± URL: https://urait.ru/bcode/450999
2. [illegible] I Bgnhj[illegible] ± 2-_ba^kij^hi ± [illegible] ± 124 k ± [illegible] ± ISBN 978-5-534-11588-8. ± URL: https://urait.ru/bcode/451451
3. [illegible] I Bgnhj[illegible] ± 2-_ba^kij^hi ± [illegible] ± 153 k ± [illegible] ± ISBN 978-5-534-11590-1. ± URL: https://urait.ru/bcode/453949
4. [illegible] < Ij[illegible] mq_[gbd b [illegible] K < Audh\ ± [illegible] ± 320 k ± [illegible] ± ISBN 978-5-534-02444-9. ± URL: https://urait.ru/bcode/450832
5. [illegible] G L_hjy[illegible] ± 2-_ba^kij^hi ± [illegible] ± 117 k ± [illegible] ± ISBN 978-5-534-04817-9. ± URL: https://urait.ru/bcode/454121
6. [illegible] J [illegible] ± [illegible] ± 104 k ± [illegible] ± ISBN 978-5-534-07559-5. ± URL: https://urait.ru/bcode/454667
7. [illegible] < :e]hjblf[illegible] mq_[gbd[illegible] < < Ljnbf\ L : I[illegible] < Ljnbf\Z ± [illegible] ± 137 k ± [illegible] ± ISBN 978-5-534-07834-3. ± URL: https://urait.ru/bcode/452333
8. [illegible] < [illegible] mq_[gbdbi[illegible] B < Q_j[illegible] ± [illegible] ± 219 k ± [illegible] ± ISBN 978-5-9916-9983-9. ± URL: https://urait.ru/bcode/450823

[illegible]

1. [illegible] < Bgnhj[illegible] mq_[gbd [illegible] / F < =[illegible] ± 4-_ba^_j[illegible] ± [illegible] 2020. ± 383 k ± [illegible] ± ISBN 978-5-534-00814-2. ± URL: https://urait.ru/bcode/449779
2. [illegible] X Bgnhj[illegible] mq_[[illegible] / : X >_[illegible] ± [illegible] ± 131 k ± [illegible] ± ISBN 978-5-534-08366-8. ± URL: https://urait.ru/bcode/451395

3. Audh\K < Ih]jZh\Zb_ [l_dlgh -hþ_glbþh\Zguc ihôh^mq_[gbd b iZdbdmf êy \mah\ K < Audh\ ± Fkd\ZBaZ_evkl\h XZl ± 155 k ± ukr__h[Zh\Zb_ ± ISBN 978-5-534-00850-0. ± URL : https://urait.ru/bcode/451488
4. ZZkdbc : : Ih]jZh\Zb_ gZ Visual C mq_[gh_ ihkh[b_ êy \mah\ / : : ZZkdbc ± 2-_ba^_jZbhi ± Fkd\ZBaZ_evkl\h XZl ± 192 k ± ukr__h[Zh\Zb_ ± ISBN 978-5-534-12338-8. ± URL: https://urait.ru/bcode/451467
5. Flhû hilbbaZbb l_hþy b ZjhþlfÛ mq_[gh_ ihkh[b_ êy \mah\ : : Q_gyd @ : Q_gyd X F Fl_evkdbc K : ;h]Zh\bq ± 2-_ ba^bkijb hi ± Fkd\ZBaZ_evkl\h XZl ± 357 k ± ukr__h[Zh\Zb_ ± ISBN 978-5-534-04103-3. ± URL: https://urait.ru/bcode/453567
6. Lmah\kdbc : N [l_dlgh -hþ_glbþh\Zgh_ ih]jZh\Zb_ mq_[gh_ ihkh[b_ êy \mah\ : N Lmah\kdbc ± Fkd\ZBaZ_evkl\h XZl 0. ± 206 k ± ukr__h[Zh\Zb_ ± ISBN 978-5-534-00849-4. ± URL: https://urait.ru/bcode/451429
7. K_lh\ ; Y Bgnhþbhggu_ l_ogheh]bb mq_[gbd êy \mah\ ; Y K_lh\ < < P_ogh\kdbc ± 7-_ba^_jZbhi ± Fkd\ZBaZ_evkl\h XZl ± 327 k ± ukr__h[Zh\Zb_ ± ISBN 978-5-534-00048-1. ± URL: https://urait.ru/bcode/449939

7.3. Z -

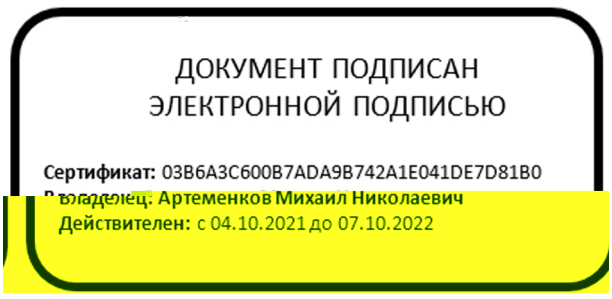
1. K_lh\Zkl_Zpbhggh]hh[mq_gbyKe=M moodle.smolgu.ru).
2. GZbhgZvguchldjulucmgb_jkbl_l intuit.ru).
3. GZbhgZvgZieZhhZldjulh]hh[Zh\Zby opened.ru)

8 Z -

Z

-gZeyguo ihkh[bc h[_ki_qb\Zsb_ l_Zbq_kdb_ beexklZbb khhl_lkl\mxsb_ih]ZbkpbiebguFhme_cmq_[gZZm^ 224 gZ 12 ihkZqguof kl I_j q_gv Z_bZvgh -l_ogbq_kdh]h h[_ki_q_gby g_h[ohbFh]h êy j_bZbaZbb dmjkZ \dexqZl \ k_[y eZhZbx hkgZ_ggmx i_jkhgZvguF dhfvxl_Zh[t_bg_ggu_ \ k_lv k \uohhf\Bgl_j_l ih_dlhjhfb bgl_Zlb\ghch^hkdhc Zm^gZhkZqguo f klbiZhkZqguof kl

Ihf s_gb_êykZklhyl_evghcZhluh[mqZsbokyhkgZ_ghdhfvxl_jhcl_ogbdhc k \hafhghklvx ihdexq_gby d k_lb Bgl_j_l b h[_ki_q_gb_fhklmiZ we_dlhggmx bgnhþbhggh -h[Zh\Z_evgmxkj^mgb_jkbl_lZ^gZhkZqguof klb iZ ihkZqguof kl

9. Z

1. H_bhggZkbkl_Z6:LQGRZ;3/LQX[
2. K_lh\Zkl_Zh]jZh\Zby069LVXGWXGLRyaudih]jZh\Zby&
3. Ihbkdh\u_kbkl_fik_lbBgl_j_l