

3- kurs Amaliy matematika Matematik tizimlar fanidan test, Matlab, Maple, Mathcad

№	Test savollari	1	2	3	4
1.	Matlab programmasi qerda, qachan va kimlar tomonidan yaratilgan?	70-yillar ohirida Nyu-Meksiko Universiteti kompyuter fanlari fakulteti (angl.computer science department at the University of New Mexico) dekani Kliv Mouler (angl. Cleve Moler) tomonidan ishlab chiqilgan.	1972 y. Bell Laboratories xodimi Dennis Ritchi tomonidan yaratildi.	Kanadaning Waterloo universitetida Keyt Geddes va Gaston Gonen boshchiligida hisoblash texnikasi birlimi tadqiqotchilari tomonidan 1980 yil dekabrda ishlab chiqildi.	1970-yilda shvetsariyalii professor N. Virt tomonidan ishlab chiqilgan
2.	Matlab programmasida clear funkciyasi xizmati nima?	hamma wzgaruvchilarning aniqlanishlarini wchiradi.	faqat ayrim wzgaruvchilarning aniqlanishlarini wchiradi	ekranni tozalaydi va kursorni ekranning yuqori chap burchagiga qaytaradi.	kursorni ekranning yuqori chap burchagiga qaytaradi.
3.	Matlab programmasida clc buyruğı xizmati nima?	ekranni tozalaydi va kursorni ekranning yuqori chap burchagiga qaytaradi.	kursorni ekranning yuqori chap burchagiga qaytaradi.	hamma wzgaruvchilarning aniqlanishlarini wchiradi.	faqat ayrim wzgaruvchilarning aniqlanishlarini wchiradi
4.	Matlab programmasida a=[1 3; 2 7];b=[2 1; 2 5];c=a.*b ifodalar bajarilgandan keyingi natijani kwrsating.	c = 2 3 4 35	c = 8 16 18 37	c = 3 4 4 12	c = -1 2 0 2
5.	Matlab programmasida format rat; y=3.5 buyruğıdan keyin qanday natija xosil bwladi?	y = 7/2	y = 3	y = 12.25	y = 4
6.	Matlab programmasida format bank; y=3.5 buyruğıdan keyin qanday natija xosil bwladi?	y = 3.50	y = 7/2	y = 4	y = 3
7.	Matlab programmasida a matricaning teskari matricasi qanday topiladi?	inv(a)	a^(-1)	inverse(a)	$\frac{1}{a}$
8.	Matlab programmasida berilgan $[a,b]$ oraliqda ikki y1=f(t) va y2=g(t) funkciyalarning grafigini bir oynada qurish qaysi javobda keltirilgan?	t=a:h:b; y1=f(t); y2=g(t); plot(t,y1,t,y2)	t=a:h:b; y1=f(t); y2=g(t); plot(y1,y2)	t=a:h:b; y1=f(t); y2=g(t); plot(y1,t,y2)	t=a:h:b; y1=f(t); y2=g(t);plot(t,y1,y2)
9.	Matlab programmasida format short;X=[1, 10, 100, 1000];m=log10(X) buyruğıdan keyin qanday natija xosil bwladi?	m = 0 1 2 3	m = 1 2 3	m = 1 2 3 4	m = 1 10 100 1000
10.	Matlab programmasida m=[3,4;6,1]' qanday matrica bwladi?	m = 3 6	m = 3 4	m = -0.0476 0.1905	m = 3 4

		4 1	6 1	0.2857 -0.1429	6 1
11.	Matlab programmasida differencial tenglamalarni echish uchun qanday buyruqlar qullaniladi?	ode23, ode45, ode23s, ode15s, ode23s	ode23, ode45, ode23s, home, magic	magic, plot, solve	solve, sum
12.	Matlab programmasida matricalarni kiritishda kanday qavslar qullaniladi?	[...]	...	(...)	{...}
13.	Matlab programmasida A matrica kanday transponirlanadi?	A'	A	[A]'	det(A)'
14.	Matlab programmasida A matricaning bosh diagonalidagi elementlar kanday aniklanadi?	diag(A)	diagonal(A)	diagonal[A]	diagon[A]
15.	Matlab swzi manoni anglatadi	matricaviy laboratoriya	matematik laboratoriya	algebraik laboratoriya	Matematik formula
16.	Matlab da [x,y]=meshgrid(-6:0.1:6);z=x^2+y^2;mesh(x,y,z) buyruqlari bajarilgandan keyin ...	$Z = x^2 + y^2$ bilan aniqlanadigan sirt yasaladi	$Z = x^2 + y^2$ funkciya birinchi tartibli xususiy hosilalari hisoblanadi.	$Z = x^2 + y^2$ funkciya ikkinchi tartibli xususiy hosilalari hisoblanadi.	$Z = x^2 + y^2$ funkciyaning x=-6 va u=6 nuqtadagi qiymatlari hisoblanadi.
17.	Matlab da factor funkciyasi xizmatini ayting.	sonni tub kwpaytuvchilarga ajratadi	Sonning juft toqligini aniqlaydi.	Sonning oxiridagi nullar sonini aniqlaydi.	Son tarkibidagi nullar sonini aniqlaydi.
18.	Matlab da syms x;b=int(sin(x)^2,x) buyruqlar bajarilgandan keyin qanday natija xosil bwladi?	b = $-1/2*\cos(x)*\sin(x)+1/2*x$	b = $-1/2*\cos(x)*\sin(x)+2*x$	b = $-1/2*\cos(x)*\sin(x)+1/2$	b = $1/2*\cos(x)*\sin(x)+1/2*x$
19.	Matlab da c=magic(3) buyruği bajarilgandan keyin qanday natija olinadi?	c = 8 1 6 3 5 7 4 9 2	c = 1 1 1 1 1 1 1 1 1	c = 1 1 1 2 2 2 3 3 3	c = 8 1 6 2 5 7 4 9 3
20.	Matlab da I=eye(3) buyruği bajarilgandan keyin qanday natija olinadi?	I = 1 0 0 0 1 0 0 0 1	I = 1 1 1 1 1 1 1 1 1	I = 0 0 1 0 1 0 1 0 0	I = 1 1 1 0 0 0 0 0 0
21.	Matlab da poly2sym([1 3 -2 -3 5]) buyruği bajarilgandan keyin qanday natija olinadi?	ans = $x^4+3*x^3-2*x^2-3*x+5$	ans = $x^4+3*x^3-2*x^2-3*x$	ans = $x^5+3*x^4-2*x^3-3*x+1$	ans = $x^7+3*x^3-2*x^2-3*x-5$

22.	Matlab da syms x; sym2poly([x^4-3*x^2-5]) buyruği bajarilgandan keyin qanday natija olinadi?	ans = 1 0 -3 0 -5	ans = 1 1 -3 0 -5	ans = 1 0 -1 0 -4	ans = 1 0 -3 1 5
23.	Matlab da x=5; syms x; p=x^3+2*x-6 buyruği bajarilgandan keyin qanday natija olinadi?	p = x^3+2*x-6	129	p = x^3+2*x-6 va 129	130
24.	Matlab da syms x; p=x^4+2*x^3+x^2-x+8; diff(p,2) buyruği bajarilgandan keyin qanday natija olinadi?	ans = 12*x^2+12*x+2	ans = 4*x^3+6*x^2+2*x-1	ans = 4*x^3+6*x^2+2*x	ans = x^3+6*x^2+2*x
25.	Matlab da syms x; p=x^2-1;int(p,0,1) qanday natijani beradi?	ans = -2/3	ans = 2/3	ans = p=x^2-1	p=x^2-1
26.	Matlab da trace(X) funkciyasi xizmatini ayting.	X matrica izini beradi (bosh diagonalda elementlar yigindisi)	X matrica rangini hisoblaydi.	X matricaning eng katta elementini qaytaradi	X matricaning eng kichik elementini qaytaradi.
27.	Matlab da v=pascal(4) bu qanday matricani beradi?	v = 1 1 1 1 1 2 3 4 1 3 6 10 1 4 10 20	v = 16 2 3 13 5 11 10 8 9 7 6 12 4 14 15 1	v = 1 2 3 13 5 11 10 8 9 7 6 12 4 14 15 1	v = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
28.	Maple sistemasi qaerda, qachan va kimlar tomonidan yaratilgan?	Kanadaning Waterloo universitetida Keyt Geddes va Gaston Gone boshchiligida hisoblash texnikasi bwlimi tadqiqotchilari tomonidan 1980 yil dekabrda ishlab chiqildi	1972 y. Bell Laboratories xodimi Dennis Ritchi tomonidan yaratildi.	1970-yilda shvecariyali professor N. Virt tomonidan ishlab chiqilgan	70-yillar ohirida Nyu-Meksiko Universiteti kompyuter fanlari fakulteti (angl. <i>computer science department at the University of New Mexico</i>) dekani Kliv Mouler (angl. Cleve Moler) tomonidan ishlab chiqilgan.
29.	Maple 6 programmasi menyu qatorini kwsating.	File, Edit, View, Insert, Format, Spreadseet, Options, Window, Help.	File, Edit, View, Insert, Format, Plot, Spreadseet, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadseet, Window, Help.	File, Edit, View, Insert, Format, Table, Drawing, Plot, Spreadseet, Tools, Window,

					Help.
30.	Maple 11 programmasi menyu qatorini kwsating	File, Edit, View, Insert, Format, Table, Drawing, Plot, Spreadset, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadset, Options, Window, Help.	File, Edit, View, Insert, Format, Plot, Spreadset, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadset, Window, Help.
31.	Maple da simplify buyruği xizmatini ayting.	Ifodani soddalashtiradi	kwpaytuvchilarga ajratadi.	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.
32.	Maple da factor buyruği xizmatini ayting.	ifodani kwpaytuvchilarga ajratadi.	Ifodani soddalashtiradi	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.
33.	Maple da collect buyruği xizmatini ayting.	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.	Ifodani soddalashtiradi	kwpaytuvchilarga ajratadi.
34.	Maple 6 da $y = \sin(x)$ funkciyaning grafigi $[0, \pi]$ oraliqda qaysi javobda twgri yasalgan?	<code>plot(sin(x), x=0..Pi);</code>	<code>plot(sin(x), x=0:pi)</code>	<code>plot(sin(x), x=0..pi);</code>	<code>plot(sin(x), x=0..Pi);</code>
35.	Maple 6 da $z = \sin(xy)$ sirtning $0 \leq x \leq \pi, 0 \leq y \leq \pi$ oraliqda grafigini yasash qaysi javobda twgri kwsatilgan?	<code>plot3d(sin(x*y), x=0..Pi, y=0..Pi);</code>	<code>plot3d(sin(x*y), x, y=0..Pi);</code>	<code>plot(sin(x*y), x=0..Pi, y=0..Pi);</code>	<code>plot(sin(x*y), x=0..Pi, y=0..Pi);</code>
36.	Maple 6 da $\cos(1)$ ning qiymatini hisoblash qaysi javobda twgri keltirilgan?	<code>cos(1.0);</code>	<code>cos1;</code>	<code>cos(1);</code>	<code>cos1</code>
37.	$\int_0^5 x^4 dx$ integralni Maple da hisoblash qaysi javobda twgri keltirilgan?	<code>int(x^4, x=0..5);</code>	<code>int(x^4: x=0..5);</code>	<code>int(x^4; x=0..5);</code>	<code>int(x^4, x=0:5);</code>
38.	Maple da eq:=a*x^2+b*x+c=0:solve(eq,a); buyruqlari bajarilganda qanday natija paydo bwladi?	$-\frac{bx+c}{x^2}$	$-\frac{ax^2+c}{x}$	$\frac{1}{2} \frac{-b + \sqrt{b^2 - 4ac}}{a}$	$-ax^2 - bx$
39.	Maple da eq:=a*x^2+b*x+c=0:solve(eq,b); buyruqlari bajarilganda qanday natija olinadi?	$-\frac{ax^2+c}{x}$	$\frac{1}{2} \frac{-b + \sqrt{b^2 - 4ac}}{a}$	$-ax^2 - bx$	$-\frac{bx+c}{x^2}$
40.	Maple da for i from 1 to 4 do s:=-i^2 end; buyruqlari bajarilganda qanday natija olinadi?	$s := -1$ $s := -4$ $s := -9$	$s := 1$ $s := 4$ $s := 9$	$s := 1$ $s := 2$ $s := 3$	1 4 9

		$s := -16$	$s := 16$	$s := 4$	16
41.	Maple da fayllar kanday kengaytma bilan saklanadi?	mw ěki mws	xls	Doc ěki avi	bat ěki sys
42.	<code>restart;x:=4;y:=x^2-x+1;z:=y+x;</code> buyruqlari bajarilganda ekranda qanday natijalar olinadi?	$x := 4$ $y := 13$ $z := 17$	$z := 17$	$y := 13$ $z := 17$	$z := y + x$
43.	<code>Int(x^3,x=1..2);</code> natijani kwsrating.	$\int_1^2 x^3 dx$	$\frac{1}{4}x^4$	$\frac{15}{4}$	$3x^2$
44.	<code>restart;Int(x^3,x=1..2)=int(x^3,x=1..2);</code> Natijani kwsrating.	$\int_1^2 x^3 dx = \frac{15}{4}$	$\frac{1}{4}x^4$	$\int_1^2 x^3 dx$	$\frac{15}{4}$
45.	<code>restart;Int(x^2,x=0..1):evalf(%);</code> Natijani kwsrating.	.3333333333	$\int_0^1 x^2 dx$	$\int x^2 dx$	$\frac{1}{3}x^3$
46.	Maple da <code>3**(-2);</code> Natijani kwsrating.	$\frac{1}{9}$	-6	6	9
47.	<code>Sum(k^2,k=1..5)=sum(k^2,k=1..5);</code> Natijani kwsrating.	$\sum_{k=1}^5 k^2 = 55$	$\sum_{k=1}^5 k^2$	55	$55 = \sum_{k=1}^5 k^2$
48.	Maple da bitta satrda kiritilgan bir nechta operatorlarni kaysi belgi bilan ajratiladi?	; ěki :	,	+	-
49.	Maple da kvadrat ildiz qanday ěziladi?	sqrt(x);	sqr(x);	abs(x)	$\sqrt{x}$
50.	e^x ni Maple dagi ifodasini kwsrating.	exp(x);	e^x	exponenta(x);	expon (x);
51.	Maple da <code>with(numtheory):</code> <code>factorset(63);</code> buyruĝi natijasi qanday?	{3, 7}	{2,5}	[2,5]	60+3
52.	Maple da <code>abs(12);</code> qanday buyruq?	12 sonining modulini	ingliz tili alfavitining 12 ta	12 sonini butun qismini	12 faktorialni xisoblaydi

		hisoblaydi	harfini chiqarish	olish	
53.	Maple da <code>eval(x^3,x=-6);</code> ifodasining natijasi qanday?	-216	216	18	12
54.	Maple da <code>diff(exp(2*x),x,x);</code> ning qiymati qanday?	$4e^{(2x)}$	$2(e^x)^2$	$2e^{(2x)}$	e^x
55.	Maple programmasida paketlarni chaqirish qanday bajariladi?	<code>with(paket nomi);</code>	<code>with{paket nomi}</code>	<code>with paket nomi;</code>	<code>with[paket nomi];</code>
56.	Maple da <code>diff(sin(x),x)</code> ning vazifasi nima?	sin(x) funkciyadan x bwyicha hosila olish	sin(x) funkciyadan x bwyicha integral hisoblash	sin(x) funkciyaning x nuqtadagi qiymatini hisoblash	sin(x) va x funkciyalar grafiklarini chizish
57.	Maple da <code>diff(sin(x),x\$k)</code> ning vazifasi nima?	sin(x) funkciyadan x bwyicha k marta hosila olish	sin(x) funkciyadan x bwyicha k darajali integral hisoblash	sin(x) funkciyaning xk nuqtadagi qiymatini hisoblash	sin(x) funkciyaning x bwyicha hosilasining k nuqtadagi qiymatini hisoblash
58.	Maple da <code>k:=23:diff(cos(x),x\$k);</code> buyruqi natijasi qanday bvladi?	$\sin(x)$	$-\cos(x)$	$-\sin(x)$	$\cos(x)$
59.	Maple da integralni hisoblash buyruqi qanday?	int(f,x);	Integral(f,x);	diff(f,x);	integral(f(x),x);
60.	<code>Diff(tan(x),x)</code> ning vazifasi qanday?	tgx ning x bwyicha hosilasini matematik shaklda kwrsatish	tgx funkciyadan x bwyicha integral hisoblash	tgx funkciyadan x bwyicha hosila olish	tgx funkciyaning x nuqtadagi qiymatini hisoblash
61.	<code>factor(3x^2+8x-3);</code> hatosini toping	kwpaytirish belgisi tushib qolgan	factor buyruqi mavjud emas	factor(3x^2+8x-3,x); bwlishi kerak	xato ywq
62.	RealRange(open(-1),open(6)) ifodasi nimani bildiradi?	$(-1,6)$	$[-1,6]$	$(-1,6]$	$[-1,6)$
63.	<code>isolve((x-12)*(x-1)*(x-4/7)=0);</code> komandasini bajarilgandan sung kanday natija xosil buladi?	$\{x=1\}, \{x=12\}$	$\{x=1\}, \{x=12\},$ $\left\{x=\frac{4}{7}\right\}$	$\left\{1,12,\frac{4}{7}\right\}$	$\{x=1\}, \left\{x=\frac{4}{7}\right\}$
64.	Maple ish varagiga izox (matn) kiritish uchun, kuyidagi buyruk bajariladi	Insert – Text	Insert – Standart Math	Insert – Spreadsheet	Insert – Maple Input
65.	<code>x\$5;</code> komandasi bajarilishi natijasida nima xosil buladi?	x, x, x, x, x	x^5	$\sqrt[5]{x}$	x_1, x_2, x_3, x_4, x_5
66.	Maple programmasi kanday masalalarni echishga erdam bermaydi?	Falsafa masalalarini	Fizika masalalarini	Algebra masalalarini	Matematik analiz masalalarini
67.	<code>add(sin(i), i=[x,y,z]);</code> komandasi bajarilishi natijasida nima xosil buladi?	sin(x)+sin(y)+sin(z)	sin(xyz)	sin i	sin x

68.	Maple da wlashtirish operatorining kurinishi kaysi?	wzgaruvchi := ifoda	wzgaruvchi → ifoda	wzgaruvchi = ifoda	wzgaruvchi ifoda
69.	$\log_a x$ ifodasi Maple da kanday kwrinishga ega bwladi?	$\log[a](x)$	$\log(a,(x))$	$\log(a(x))$	$\log[a,x]$
70.	Maple da solve(eq,x) ; komandasi kanday vazifani bajaradi?	Tenglamalarni, tengsizliklarni echishda qvllaniladigan universal komanda	Funkciya grafigini chizadi	Ifodani soddalashtiradi	Sonning butun qismini ajratib oladi
71.	Maple da restart komandasi kanday vazifani bajaradi?	YAdroning ichki xotirasini tozalab, kayta yuklaydi	Uzgaruvchilarni aniklaydi	Programmani kaytadan ishga tushiradi	Animaciyani boshlaydi
72.	$\lim_{x \rightarrow 0} \frac{\sin(2x)}{x}$ ifodasi Maple da kanday tasvirlanadi?	$\text{Limit}(\sin(2*x)/x, x=0);$	$\text{Limit}(\sin(2*x)/x, x>0);$	$\text{limit}(\sin(2*x)/x, x, 0);$	$\text{limit}(\sin(2*x)/x, x=0);$
73.	Maple da $\text{RealRange}(-\infty, a);$ ifodasi nimani bildiradi?	$x \in (-\infty, a]$	$x \in (-\infty, a)$	$x \in (a, b)$	$x \in [a, b]$
74.	inverse(A) ; Maple da komandasi kanday vazifani bajaradi?	A matrica teskari matricasini aniqlaydi.	A matrica rangini aniqlaydi.	A matrica determinantini aniqlaydi.	A matricaning eng kata elementini aniqlaydi.
75.	Maple da transpose(A) ; komandasi kanday vazifani bajaradi?	A matricaning transponirlangan matricasini aniqlaydi.	A matrica rangini aniqlaydi.	A matrica determinantini aniqlaydi.	A matrica teskari matricasini aniqlaydi
76.	Maple da eigenvalues(A) ; komandasi kanday vazifani bajaradi?	A matricaning xos sonlarini aniqlaydi	A matricaning xos vektorlarini aniqlaydi	A matricaning xarakteristik tenglamasini aniqlaydi	Matricaning normasini hisoblaydi
77.	Maple da eigenvectors(A) ; komandasi kanday vazifani bajaradi?	A matricaning xos vektorlarini aniqlaydi	A matricaning xos sonlarini aniqlaydi	A matricaning xarakteristik tenglamasini aniqlaydi	A matricaning normasini hisoblaydi
78.	Maple da $y' + y = \sin x \cos x$ tenglamani echish buyruği qaysi javobda keltirilgan?	de:=diff(y(x),x)+y(x)=sin(x)*cos(x); dsolve(de,y(x));	de:=diff(y(x),x)+y(x)=sin(x)*cos(x);solve(de,y(x));	de:=diff(y(x),x)+y(x)=sin(x)*cos(x);rsolve(de,y(x));	de:=diff(y(x),x)+y(x)=sin(x)*cos(x);isolve(de,y(x));
79.	Maple da $y'' + y = 2x^2 - \pi$, $y(0) = 0, y\left(\frac{\pi}{2}\right) = 0$ masalani echish usuli qaysi javobda keltirilgan?	restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; dsolve({de,cond},y(x));	restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; rsolve({de,cond},y(x));	restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; solve({de,cond},y(x));	restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi)=0; dsolve({de,cond},y(x));

80.	Maple da Doubleint(f(x, y), D) komandasi xizmatini ayting.	D sohada ikki karrali integralni hisoblash (inert komanda)	D sohada uch karrali integralni hisoblash (inert komanda)	D sohada ikki karrali integral ostidagi funkciyani kvadratga kwtaradi (inert komanda)	D sohada ikki karrali integral ostidagi funkciyadan kvadrat ildiz oladi (inert komanda)
81.	Maple da Tripleint(f(x, y, z), x, y, z, V) komandasi xizmatini ayting.	D sohada uch karrali integralni hisoblash (inert komanda)	D sohada ikki karrali integral ostidagi funkciyani kvadratga kwtaradi (inert komanda)	D sohada ikki karrali integral ostidagi funkciyadan kvadrat ildiz oladi (inert komanda)	D sohada ikki karrali integralni hisoblash (inert komanda)
82.	Maple da $\prod_{n=2}^{\infty} \frac{n-1}{n^3-1}$ kwpaytmni hisoblash qaysi javobda twgri keltirilgan.	<code>product((n-1)/(n^3-1), n=2..infinity);</code>	<code>product((n-1)/(n^3+1), n=2..infinity);</code>	<code>product(n-1/(n^3-1), n=2..infinity);</code>	<code>sum((n-1)/(n^3-1), n=2..infinity);</code>
83.	Maple da ishlatiladigan barcha funkciyalar xakida malumot olish uchun qaysi buyruqdan foydalaniladi?	<code>? inifunction</code>	<code>? integer</code>	<code>? ininame</code>	<code>? type</code>
84.	Maple 6 da cimvollarni kiritish palitrasi kanday ochiladi?	View – Palettes – Symbol Palette	Insert – Palettes – Expression Palette	View – Palettes – Matrix	View – Palettes – Expression Palette
85.	Maple 6 da matricallarni kiritish uchun shablonli palitralar kanday ochiladi?	View – Palettes – Matrix Palette buyrugi	Insert – Palettes – Symbol Palette buyrugi	View – Palettes – Symbol Palette buyrugi	Insert – Palettes – Expression Palette buyrugi
86.	Maple da infinity matematik konstantasining manosi nima?	CHeksizlik	Eyler konstantasi	Mantikiy konstanta	Bu konstanta emas
87.	Maple da grafikani aloxida oynada chikarish uchun kaysi buyrukni bajarish kerak?	Options – Plot Display – Windows	Options – Plot Display – Inline	Options – Output Display – Mapl notation	Options – Output Display – Character notation
88.	Maple da ifodani kiritish palitrasi kanday ochiladi?	Insert – Palettes – Expression Palette	View – Palettes – Symbol Palette	View – Palettes – Matrix	Insert – Palettes – Symbol Palette
89.	Maple da aniq integralning matematik kwrinishini chiqarish buyrugi qanday?	Int(f,x=a..b);	integral(f(x),x);	int(f,x,a,b);	int(f,x=a..b);
90.	Maple da tenglamaning barcha butun echimlarini topish uchun kaysi komanda ishlatiladi?	isolve	solve	msolve	fsolve
91.	$\frac{\sqrt{6+2\sqrt{5}} - \sqrt{6-2\sqrt{5}}}{\sqrt{3}}$ ifodasi Maple da kanday eziladi?	<code>(sqrt(6+2*sqrt(5))-sqrt(6-2*sqrt(5)))/sqrt(3);</code>	<code>(sqr(6+2*sqr(5))-sqr(6-2*sqr(5)))/sqr(3);</code>	<code>(sqrt6+2*sqrt(5)-sqrt6-2*sqrt(5))/sqrt(3);</code>	<code>sqrt(6+2*sqrt(5))-sqrt(6-2*sqrt(5))/sqrt(3);</code>
92.	Maple da numer komandasi nima ish bajaradi?	Kasrning suratini chiqaradi	Ifodada ishlatilgan amallar sonini aniqlaydi	Ifodaning chap tomonini chiqaradi	Kasrning maxrajini chiqaradi
93.	Maple da qaysi komanda kupburchaklar grafigini kwrsatadi?	polygonplot	plot	implicitplot	polarplot
94.	Maple da Simvollarni kiritish palitrasi kanday	View – Palettes – Symbol	Insert – Palettes – Expression	View – Palettes – Matrix	Insert – Palettes – Symbol

	ochiladi?	Palette	Palette		Palette
95.	Maple da grafikani ishchi varagida chikarish uchun kaysi buyrukni bajarish kerak?	Options – Plot Display – Inline	Options – Output Display – Maple notation	Options – Output Display – Character notation	Options – Plot Display – Windows
96.	Maple da surd(1000,3) buyruği bajarilgandan keyin natija qanday bwladi?	10	100	1000	1
97.	Maple da qaysi komanda berilgan funkciyaning n-xosilasini xisoblaydi?	diff(f,x\$n);	dsolve(f,x);	Diff(f,x);	Derive(f,x);
98.	% simvoli Maple da kanday vazifani bajaradi?	oldingi ifodani chaqiradi	katorning tugaganligini bildiradi	Foizni xisoblaydi	wzgaruvchilarni aniklashda qwllaniladi
99.	MathCAD da ifodalarni kwpaytuvchilarga ajratish uchun qanday buyruq qwllaniladi?	factor	expand	simplify	Collect
100.	MathCAD da ifodani soddalashtirish uchun qanday buyruq qwllaniladi?	simplify	expand	factor	collect
101.	MathCAD da wxshash qwshiluvchilarni ixchamlash uchun qanday kalitli swz foydalaniladi?	collect	expand	factor	simplify
102.	Mathcad da matricalar bilan ishlashda rows (A) ichki funkciyasi xizmati	katorlar soni	ustunlar soni	vektor elementlari soni	vektorning keyingi elementi indeksi
103.	Mathcad da vektorlar va matricalar bilan ishlashda length (v) ichki funkciyasi xizmati	vektor elementlari soni	qatorlar soni	ustunlar soni	vektorning keyingi elementi indeksi
104.	Mathcad da matricalar bilan ishlashda cols (A) ichki funkciyasi xizmati	ustunlar soni	vektor elementlari soni	vektorning keyingi elementi indeksi	qatorlar soni
105.	MathCAD da yangi hujjatning dastlabki nomi	Untitled:1	Mathcad:1	Document:1	System:1
106.	MathCAD da $\rightarrow$ belgisi qanday vazifaga ega	Simvolli natija operatori	Wzlashtirish operatori	Keyingi ifodaga wtish belgisi	Qator ifodaga kiritilishin anglatadi
107.	MathCAD da solve operatori hizmatini ayting.	tenglamalarni echadi	funkciya hosilasini hisoblaydi	vektor elementlari soni	tenglamadagi nomalumning oldidagi koefficientlarini aniqlaydi
108.	MathCAD da matricalarini transpollash qanday bajariladi?	Symbolic (Simvolnie) panelidagi $M^T \rightarrow$ orqali	Symbolic (Simvolnie) panelidagi series orqali	Symbolic (Simvolnie) panelidagi $ M \rightarrow$ orqali	Symbolic (Simvolnie) panelidagi $\rightarrow$ orqali
109.	Funkciyalarni qatorga eyish qanday bajariladi?	Symbolic (Simvolnie) panelidagi series operatori ërdamida	Symbolic (Simvolnie) panelidagi coeffs operatori ërdamida	Symbolic (Simvolnie) panelidagi $ M \rightarrow$ ërdamida	Symbolic (Simvolnie) panelidagi $M^T \rightarrow$ ërdamida
110.	MathCAD ning menyu qatori qaysi bandda twgri kwrsatilgan?	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumentí, Simvolí, Okno, Spravka	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumentí	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumentí, Simvolí, Spravka	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumentí, Simvolí, Okno

111.	Math paneli necha tugmachalardan iborat?	9	8	7	6
112.	Graph paneli necha xil grafik kwrinishlarni wz ichiga oladi?	9	6	4	8
113.	MathCAD 14 menyu ěrdamida differenciallash qanday bajariladi?	Symbolics/Variable/Differentiate (Simvolika / Peremennaya/ Differencirovat)	Symbolics/Differentiate (Simvolika / Differencirovat)	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirovat)	Symbolics/Integrate (Simvolika / Integrirovat)
114.	MathCAD 14 menyu ěrdamida integrallash qanday bajariladi?	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirovat)	Symbolics/Differentiate (Simvolika / Differencirovat)	Symbolics/Variable/Solve (Simvolika / Peremennaya/ Reshit)	Symbolics/Integrate (Simvolika / Integrirovat)
115. 2	MathCAD 14 menyu ěrdamida tenglamalarni echish qanday bajariladi?	Symbolics/Variable/Solve (Simvolika / Peremennaya/ Reshit)	Symbolics/Variable/Differentiate (Simvolika / Peremennaya/ Differencirovat)	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirovat)	Symbolics/Integrate (Simvolika / Integrirovat)
116. 2	MathCad da floor(x) xizmatini ayting	x dan kichik ěki unga teng eng katta butun sonni qaytaradi	x dan katta ěki unga teng eng kichik butun sonni qaytaradi	x dan kichik ěki unga teng eng katta juft sonni qaytaradi	x dan kichik ěki unga teng eng katta toq sonni qaytaradi
117. 2	$z := 4 - 112 \cdot i$ $\text{Im}(z) \rightarrow$ Natija nimaga teng bwladi?	-112	112	4	-108
118. 2	Eygenvals(A) funkciyasi nimani beradi?	A kvadrat matricaning xos qiymatlarini beradi.	A kvadrat matricaning xos vektorini beradi.	A kvadrat matricaning xos vektorining modulini beradi.	A kvadrat matricaning rangini beradi.
119. 2	MathCad da Eygenvec(A,λ) funkciyasi nimani beradi?	A kvadrat matricaning λ xos qiymatga mos xos vektorini beradi.	A kvadrat matricaning xos sonini beradi.	A kvadrat matricaning xos vektorining modulini beradi.	A kvadrat matricaning rangini beradi.
120. 2	MathCad da ichki funkciyalar (vstroenně funkci) qanday chaqiriladi?	Insert Function knopkasi ěki Insert menyusı Function ... bwlimi ěki Ctrl+E tugmalari ěrdamida	Insert/Graph ěrdamida	Insert/unit ěrdamida	Insert/Area ěrdamida

Matlab, Maple, Mathcad

№	Test savollari	1	2	3	4
121.	Matlab programmasi qacda, qachan va kimlar tomonidan yaratilgan?	70-yillar ohirida Nyu-Meksiko Universiteti kompyuter fanlari fakulteti (angl.computer science department at the University of New Mexico) dekani Kliv Moler (angl. Cleve Moler) tomonidan ishlab chiqilgan.	1972 y. Bell Laboratories xodimi Dennis Ritchi tomonidan yaratildi.	Kanadaning Waterloo universitetida Keyt Geddes va Gaston Gone boshchiligida hisoblash texnikasi bwlimi tadqiqotchilari tomonidan 1980 yil dekabrda ishlab chiqildi.	1970-yilda shvecariyalı professor N. Virt tomonidan ishlab chiqilgan
122.	Matlab programmasida clear funkciyasi xizmati nima?	hamma wzgaruvchilarning aniqlanishlarini wchiradi.	faqat ayrim wzgaruvchilarning aniqlanishlarini wchiradi	ekranni tozalaydi va kursorni ekranning yuqori	kursorni ekranning yuqori chap burchagiga qaytaradi.

				chap burchagiga qaytaradi.	
123.	Matlab programmasida clc buyruği xizmati nima?	ekranni tozalaydi va kursorni ekranning yuqori chap burchagiga qaytaradi.	kursorni ekranning yuqori chap burchagiga qaytaradi.	hamma wzgaruvchilarning aniqlanishlarini wchiradi.	faqat ayrim wzgaruvchilarning aniqlanishlarini wchiradi
124.	Matlab programmasida a=[1 3; 2 7];b=[2 1; 2 5];c=a.*b ifodalar bajarilgandan keyingi natijani kwrsating.	c = 2 3 4 35	c = 8 16 18 37	c = 3 4 4 12	c = -1 2 0 2
125.	Matlab programmasida format rat; y=3.5 buyruğidan keyin qanday natija xosil bwladi?	y = 7/2	y = 3	y = 12.25	y = 4
126.	Matlab programmasida format bank; y=3.5 buyruğidan keyin qanday natija xosil bwladi?	y = 3.50	y = 7/2	y = 4	y = 3
127.	Matlab programmasida a matricaning teskari matricasi qanday topiladi?	inv(a)	a^(-1)	inverse(a)	$\frac{1}{a}$
128.	Matlab programmasida berilgan $[a, b]$ oraliqda ikki y1=f(t) va y2=g(t) funkciyalarning grafigini bir oynada qurish qaysi javobda keltirilgan?	t=a:h:b; y1=f(t); y2=g(t); plot(t,y1,t,y2)	t=a:h:b; y1=f(t); y2=g(t); plot(y1,y2)	t=a:h:b; y1=f(t); y2=g(t); plot(y1,t,y2)	t=a:h:b; y1=f(t); y2=g(t);plot(t,y1,y2)
129.	Matlab programmasida format short;X=[1, 10, 100, 1000];m=log10(X) buyruğidan keyin qanday natija xosil bwladi?	m = 0 1 2 3	m = 1 2 3	m = 1 2 3 4	m = 1 10 100 1000
130.	Matlab programmasida m=[3,4;6,1]' qanday matrica bwladi?	m = 3 6 4 1	m = 3 4 6 1	m = -0.0476 0.1905 0.2857 -0.1429	m = 3 4 6 1
131.	Matlab programmasida differencial tenglamalarni echish uchun qanday buyruqlar qwillaniladi?	ode23, ode45, ode23s, ode15s, ode23s	ode23, ode45, ode23s, home, magic	magic, plot, solve	solve, sum
132.	Matlab programmasida matricallarni kiritishda kanday qavslar qwillaniladi?	[...]	...	(...)	{...}
133.	Matlab programmasida A matrica kanday transponirlanadi?	A'	A	[A]'	det(A)'
134.	Matlab programmasida A matricaning bosh diagonalidagi elementlar kanday aniklanadi?	diag(A)	diagonal(A)	diagonal[A]	diagon[A]
135.	Matlab swzi manoni anglatadi	matricaviy laboratoriya	matematik laboratoriya	algebraik laboratoriya	Matematik formula
136.	Matlab da [x,y]=meshgrid(-6:0.1:6);z=x^2+y^2;mesh(x,y,z) buyruqlari bajarilgandan keyin ...	$z = x^2 + y^2$ bilan	$z = x^2 + y^2$ funkciya	$z = x^2 + y^2$ funkciya	$z = x^2 + y^2$ funkciyaning

		aniqlanadigan sirt yasaladi	birinchi tartibli xususiy hosilalari hisoblanadi.	ikkinchi tartibli xususiy hosilalari hisoblanadi.	x=-6 va u=6 nuqtadagi qiymatlari hisoblanadi.
137.	Matlab da factor funkciyasi xizmatini ayting.	sonni tub kwpaytuvchilarga ajratadi	Sonning juft toqligini aniqlaydi.	Sonning oxiridagi nullar sonini aniqlaydi.	Son tarkibidagi nullar sonini aniqlaydi.
138.	Matlab da syms x;b=int(sin(x)^2,x) buyruqlar bajarilgandan keyin qanday natija xosil bwladi?	b = $-\frac{1}{2} \cos(x) \sin(x) + \frac{1}{2} x$	b = $-\frac{1}{2} \cos(x) \sin(x) + 2x$	b = $-\frac{1}{2} \cos(x) \sin(x) + \frac{1}{2}$	b = $\frac{1}{2} \cos(x) \sin(x) + \frac{1}{2} x$
139.	Matlab da c=magic(3) buyruği bajarilgandan keyin qanday natija olinadi?	c = $\begin{bmatrix} 8 & 1 & 6 \\ 3 & 5 & 7 \\ 4 & 9 & 2 \end{bmatrix}$	c = $\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$	c = $\begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \end{bmatrix}$	c = $\begin{bmatrix} 8 & 1 & 6 \\ 2 & 5 & 7 \\ 4 & 9 & 3 \end{bmatrix}$
140.	Matlab da I=eye(3) buyruği bajarilgandan keyin qanday natija olinadi?	I = $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$	I = $\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$	I = $\begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$	I = $\begin{bmatrix} 1 & 1 & 1 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$
141.	Matlab da poly2sym([1 3 -2 -3 5]) buyruği bajarilgandan keyin qanday natija olinadi?	ans = $x^4 + 3x^3 - 2x^2 - 3x + 5$	ans = $x^4 + 3x^3 - 2x^2 - 3x$	ans = $x^5 + 3x^3 - 2x^2 - 3x + 1$	ans = $x^7 + 3x^3 - 2x^2 - 3x - 5$
142.	Matlab da syms x; sym2poly([x^4-3*x^2-5]) buyruği bajarilgandan keyin qanday natija olinadi?	ans = $1 \quad 0 \quad -3 \quad 0 \quad -5$	ans = $1 \quad 1 \quad -3 \quad 0 \quad -5$	ans = $1 \quad 0 \quad -1 \quad 0 \quad -4$	ans = $1 \quad 0 \quad -3 \quad 1 \quad 5$
143.	Matlab da x=5; syms x; p=x^3+2*x-6 buyruği bajarilgandan keyin qanday natija olinadi?	p = $x^3 + 2x - 6$	129	p = x^3+2*x-6 va 129	130
144.	Matlab da syms x; p=x^4+2*x^3+x^2-x+8; diff(p,2) buyruği bajarilgandan keyin qanday natija olinadi?	ans = $12x^2 + 12x + 2$	ans = $4x^3 + 6x^2 + 2x - 1$	ans = $4x^3 + 6x^2 + 2x$	ans = $x^3 + 6x^2 + 2x$

145.	Matlab da syms x; p=x^2-1;int(p,0,1) qanday natijani beradi?	ans = -2/3	ans = 2/3	ans = p=x^2-1	p=x^2-1
146.	Matlab da trace(X) funkciyasi xizmatini ayting.	X matrica izini beradi (bosh diagonalidagi elementlar yigindisi)	X matrica rangini hisoblaydi.	X matricaning eng katta elementini qaytaradi	X matricaning eng kichik elementini qaytaradi.
147.	Matlab da v=pascal(4) bu qanday matricani beradi?	v = 1 1 1 1 1 2 3 4 1 3 6 10 1 4 10 20	v = 16 2 3 13 5 11 10 8 9 7 6 12 4 14 15 1	v = 1 2 3 13 5 11 10 8 9 7 6 12 4 14 15 1	v = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
148.	Maple sistemasi qaerda, qachan va kimlar tomonidan yaratilgan?	Kanadaning Waterloo universitetida Keyt Geddes va Gaston Gone boshchiligidagi hisoblash texnikasi bwlimi tadqiqotchilari tomonidan 1980 yil dekabrda ishlab chiqildi	1972 y. Bell Laboratories xodimi Dennis Ritchi tomonidan yaratildi.	1970-yilda shvecariyal professor N. Virt tomonidan ishlab chiqilgan	70-yillar ohirida Nyu-Meksiko Universiteti kompyuter fanlari fakulteti (angl. <i>computer science department at the University of New Mexico</i>) dekani Kliv Mouler (angl. Cleve Moler) tomonidan ishlab chiqilgan.
149.	Maple 6 programmasi menyu qatorini kwsating.	File, Edit, View, Insert, Format, Spreadseet, Options, Window, Help.	File, Edit, View, Insert, Format, Plot, Spreadseet, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadseet, Window, Help.	File, Edit, View, Insert, Format, Table, Drawing, Plot, Spreadseet, Tools, Window, Help.
150.	Maple 11 programmasi menyu qatorini kwsating	File, Edit, View, Insert, Format, Table, Drawing, Plot, Spreadseet, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadseet, Options, Window, Help.	File, Edit, View, Insert, Format, Plot, Spreadseet, Tools, Window, Help.	File, Edit, View, Insert, Format, Spreadseet, Window, Help.
151.	Maple da simplify buyruği xizmatini ayting.	Ifodani soddalashtiradi	kwpaytuvchilarga ajratadi.	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.
152.	Maple da factor buyruği xizmatini ayting.	ifodani kwpaytuvchilarga ajratadi.	Ifodani soddalashtiradi	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.
153.	Maple da collect buyruği xizmatini ayting.	Wxshash hadlarni ixchamlaydi.	Umumiy maxrajga olib keladi.	Ifodani soddalashtiradi	kwpaytuvchilarga ajratadi.
154.	Maple 6 da $y = \sin(x)$ funkciyaning grafigi $[0, \pi]$ oraliqda qaysi javobda twgri yasalgan?	plot(sin(x), x=0..Pi);	plot(sin(x), x=0:pi)	plot(sin(x), x=0..pi);	plot(sin(x), x=0..Pi);

155.	Maple 6 da $z = \sin(xy)$ sirtning $0 \leq x \leq \pi$, $0 \leq y \leq \pi$ oraligida grafigini yasash qaysi javobda twgri kwrsatilgan?	<code>plot3d(sin(x*y), x=0..Pi, y=0..Pi);</code>	<code>plot3d(sin(x*y), x, y=0..Pi);</code>	<code>plot(sin(x*y), x=0..Pi, y=0..Pi);</code>	<code>plot(sin(x*y), x=0..Pi, y=0..Pi);</code>
156.	Maple 6 da $\cos(1)$ ning qiymatini hisoblash qaysi javobda twgri keltirilgan?	<code>cos(1.0);</code>	<code>cos1;</code>	<code>cos(1) .</code>	<code>cos1</code>
157.	$\int_0^5 x^4 dx$ integralni Maple da hisoblash qaysi javobda twgri keltirilgan?	<code>int(x^4, x=0..5);</code>	<code>int(x^4: x=0..5);</code>	<code>int(x^4; x=0..5);</code>	<code>int(x^4, x=0:5);</code>
158.	Maple da <code>eq:=a*x^2+b*x+c=0:solve(eq,a);</code> buyruqlari bajarilganda qanday natija paydo bwladi?	$-\frac{bx+c}{x^2}$	$-\frac{ax^2+c}{x}$	$\frac{1}{2} \frac{-b + \sqrt{b^2 - 4ac}}{a}$	$-ax^2 - bx$
159.	Maple da <code>eq:=a*x^2+b*x+c=0:solve(eq,b);</code> buyruqlari bajarilganda qanday natija olinadi?	$-\frac{ax^2+c}{x}$	$\frac{1}{2} \frac{-b + \sqrt{b^2 - 4ac}}{a}$	$-ax^2 - bx$	$-\frac{bx+c}{x^2}$
160.	Maple da <code>for i from 1 to 4 do s:=-i^2 end;</code> buyruqlari bajarilganda qanday natija olinadi?	$s := -1$ $s := -4$ $s := -9$ $s := -16$	$s := 1$ $s := 4$ $s := 9$ $s := 16$	$s := 1$ $s := 2$ $s := 3$ $s := 4$	1 4 9 16
161.	Maple da fayllar kanday kengaytma bilan saklanadi?	mw ěki mws	xls	Doc ěki avi	bat ěki sys
162.	<code>restart;x:=4;y:=x^2-x+1;z:=y+x;</code> buyruqlari bajarilganda ekranda qanday natijalar olinadi?	$x := 4$ $y := 13$ $z := 17$	$z := 17$	$y := 13$ $z := 17$	$z := y + x$
163.	<code>Int(x^3, x=1..2);</code> natijani kwrsating.	$\int_1^2 x^3 dx$	$\frac{1}{4} x^4$	$\frac{15}{4}$	$3x^2$

164.	<code>restart; Int(x^3, x=1..2)=int(x^3, x=1..2);</code> Natijani kwsrating.	$\int_1^2 x^3 dx = \frac{15}{4}$	$\frac{1}{4}x^4$	$\int_1^2 x^3 dx$	$\frac{15}{4}$
165.	<code>restart; Int(x^2, x=0..1):evalf(%);</code> Natijani kwsrating.	.3333333333	$\int_0^1 x^2 dx$	$\int x^2 dx$	$\frac{1}{3}x^3$
166.	Maple da <code>3**(-2);</code> Natijani kwsrating.	$\frac{1}{9}$	-6	6	9
167.	<code>Sum(k^2, k=1..5)=sum(k^2, k=1..5);</code> Natijani kwsrating.	$\sum_{k=1}^5 k^2 = 55$	$\sum_{k=1}^5 k^2$	55	$55 = \sum_{k=1}^5 k^2$
168.	Maple da bitta satrda kiritilgan bir nechta operatorlarni kaysi belgi bilan ajratiladi?	; ёki :	,	+	-
169.	Maple da kvadrat ildiz qanday ёziladi?	sqrt(x);	sqr(x);	abs(x)	$\sqrt{x}$
170.	e^x ni Maple dagi ifodasini kwsrating.	exp(x);	e^x	exponenta(x);	expon (x);
171.	Maple da <code>with(numtheory): factorset(63);</code> buyruёi natijasi qanday?	{3, 7}	{2,5}	[2,5]	60+3
172.	Maple da <code>abs(12);</code> qanday buyruq?	12 sonining modulini hisoblaydi	ingliz tili alfavitining 12 ta harfini chiqarish	12 sonini butun qismini olish	12 faktorialni xisoblaydi
173.	Maple da <code>eval(x^3, x=-6);</code> ifodasining natijasi qanday?	-216	216	18	12
174.	Maple da <code>diff(exp(2*x), x, x);</code> ning qiymati qanday?	$4e^{(2x)}$	$2(e^x)^2$	$2e^{(2x)}$	e^x
175.	Maple programmasida paketlarni chaqirish qanday bajariladi?	<code>with(paket nomi);</code>	<code>with{paket nomi}</code>	<code>with paket nomi;</code>	<code>with[paket nomi];</code>
176.	Maple da <code>diff(sin(x), x)</code> ning vazifasi nima?	sin(x) funkciyadan x bwyicha hosila olish	sin(x) funkciyadan x bwyicha integral hisoblash	sin(x) funkciyaning x nuqtadagi qiymatini hisoblash	sin(x) va x funkciyalar grafiklarini chizish
177.	Maple da <code>diff(sin(x), x\$k)</code> ning vazifasi nima?	sin(x) funkciyadan x bwyicha k marta hosila	sin(x) funkciyadan x bwyicha k darajali	sin(x) funkciyaning xk nuqtadagi qiymatini	sin(x) funkciyaning x bwyicha hosilasining k nuqtadagi

		olish	integral hisoblash	hisoblash	qiymatini hisoblash
178.	Maple da k:=23:diff(cos(x),x\$k); buyruği natijasi qanday bvladi?	$\sin(x)$	$-\cos(x)$	$-\sin(x)$	$\cos(x)$
179.	Maple da integralni hisoblash buyruği qanday?	int(f,x);	Integral(f,x);	diff(f,x);	integral(f(x),x);
180.	Diff(tan(x),x) ning vazifasi qanday?	tgx ning x bwyicha hosilasini matematik shaklda kwrsatish	tgx funkciyadan x bwyicha integral hisoblash	tgx funkciyadan x bwyicha hosila olish	tgx funkciyaning x nuqtadagi qiymatini hisoblash
181.	factor(3x^2+8x-3); hatosini toping	kwpaytirish belgisi tushib qolgan	factor buyruği mavjud emas	factor(3x^2+8x-3,x); bwlishi kerak	xato ywq
182.	RealRange(open(-1),open(6)) ifodasi nimani bildiradi?	$(-1,6)$	$[-1,6]$	$(-1,6]$	$[-1,6)$
183.	isolve({(x-12)*(x-1)*(x-4/7)=0}); komandasini bajarilgandan sung kanday natija xosil buladi?	$\{x=1\}, \{x=12\}$	$\{x=1\}, \{x=12\},$ $\left\{x=\frac{4}{7}\right\}$	$\left\{1,12,\frac{4}{7}\right\}$	$\{x=1\}, \left\{x=\frac{4}{7}\right\}$
184.	Maple ish varagiga izox (matn) kiritish uchun, kuyidagi buyruk bajariladi	Insert – Text	Insert – Standart Math	Insert – Spreadsheet	Insert – Maple Input
185.	x\$5; komandasi bajarilishi natijasida nima xosil buladi?	x, x, x, x, x	x^5	$\sqrt[5]{x}$	x_1, x_2, x_3, x_4, x_5
186.	Maple programmasi kanday masalalarni echishga ěrdam bermaydi?	Falsafa masalalarini	Fizika masalalarini	Algebra masalalarini	Matematik analiz masalalarini
187.	add(sin(i), i=[x,y,z]); komandasi bajarilishi natijasida nima xosil buladi?	$\sin(x)+\sin(y)+\sin(z)$	$\sin(xyz)$	$\sin i$	$\sin x$
188.	Maple da wzlashtirish operatorining kurinishi kaysi?	wzgaruvchi := ifoda	wzgaruvchi → ifoda	wzgaruvchi = ifoda	wzgaruvchi ifoda
189.	$\log_a X$ ifodasi Maple da kanday kwrinishga ega bvladi?	$\log[a](x)$	$\log(a,(x))$	$\log(a(x))$	$\log[a,x]$
190.	Maple da solve(eq,x); komandasi kanday vazifani bajaradi?	Tenglamalarni, tengsizliklarni echishda qwllaniladigan universal komanda	Funkciya grafigini chizadi	Ifodani soddalashtiradi	Sonning butun qismini ajratib oladi
191.	Maple da restart komandasi kanday vazifani bajaradi?	YAdroning ichki xotirasini tozalab, kayta yuklaydi	Uzgaruvchilarni aniklaydi	Programmani kaytadan ishga tushiradi	Animaciyani boshlaydi

192.	$\lim_{x \rightarrow 0} \frac{\sin(2x)}{x}$ ifodasi Maple da kanday tasvirlanadi?	Limit(sin(2*x)/x,x=0);	Limit(sin(2*x)/x,x>0);	limit(sin(2*x)/x,x,0);	limit(sin(2*x)/x,x=0);
193.	Maple da RealRange(-∞,a); ifodasi nimani bildiradi?	$x \in (-\infty, a]$	$x \in (-\infty, a)$	$x \in (a, b)$	$x \in [a, b]$
194.	inverse(A) ; Maple da komandasi kanday vazifani bajaradi?	A matrica teskari matricasini aniqlaydi.	A matrica rangini aniqlaydi.	A matrica determinantini aniqlaydi.	A matricaning eng kata elementini aniqlaydi.
195.	Maple da transpose(A) ; komandasi kanday vazifani bajaradi?	A matricaning transponirlangan matricasini aniqlaydi.	A matrica rangini aniqlaydi.	A matrica determinantini aniqlaydi.	A matrica teskari matricasini aniqlaydi
196.	Maple da eigenvalues(A) ; komandasi kanday vazifani bajaradi?	A matricaning xos sonlarini aniqlaydi	A matricaning xos vektorlarini aniqlaydi	A matricaning xarakteristik tenglamasini aniqlaydi	Matricaning normasini hisoblaydi
197.	Maple da eigenvectors(A) ; komandasi kanday vazifani bajaradi?	A matricaning xos vektorlarini aniqlaydi	A matricaning xos sonlarini aniqlaydi	A matricaning xarakteristik tenglamasini aniqlaydi	A matricaning normasini hisoblaydi
198.	Maple da $y' + y = \sin x \cos x$ tenglamani echish buyruği qaysi javobda keltirilgan?	<code>de:=diff(y(x),x)+y(x)=sin(x)*cos(x); dsolve(de,y(x));</code>	<code>de:=diff(y(x),x)+y(x)=sin(x)*cos(x);solve(de,y(x));</code>	<code>de:=diff(y(x),x)+y(x)=sin(x)*cos(x);rsolve(de,y(x));</code>	<code>de:=diff(y(x),x)+y(x)=sin(x)*cos(x);isolve(de,y(x));</code>
199.	Maple da $y'' + y = 2x^2 - \pi$, $y(0) = 0, y\left(\frac{\pi}{2}\right) = 0$ masalani echish usuli qaysi javobda keltirilgan?	<code>restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; dsolve({de,cond},y(x));</code>	<code>restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; rsolve({de,cond},y(x));</code>	<code>restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi/2)=0; solve({de,cond},y(x));</code>	<code>restart; de:=diff(y(x),x\$2)+y(x)=2*x^2-Pi; cond:=y(0)=0,y(Pi)=0; dsolve({de,cond},y(x));</code>
200.	Maple da Doubleint(f(x, y), D) komandasi xizmatini ayting.	D sohada ikki karrali integralni hisoblash (inert komanda)	D sohada uch karrali integralni hisoblash (inert komanda)	D sohada ikki karrali integral ostidagi funkciyani kvadratga kwtaradi (inert komanda)	D sohada ikki karrali integral ostidagi funkciyadan kvadrat ildiz oladi (inert komanda)
201.	Maple da Tripleint(f(x, y, z), x, y, z, V) komandasi xizmatini ayting.	D sohada uch karrali integralni hisoblash (inert komanda)	D sohada ikki karrali integral ostidagi funkciyani kvadratga kwtaradi (inert komanda)	D sohada ikki karrali integral ostidagi funkciyadan kvadrat ildiz oladi (inert komanda)	D sohada ikki karrali integralni hisoblash (inert komanda)
202.	Maple da $\prod_{n=2}^{\infty} \frac{n-1}{n^3-1}$ kwpaytmani hisoblash qaysi javobda twgri keltirilgan.	<code>product((n-1)/(n^3-1),n=2..infinity);</code>	<code>product((n-1)/(n^3+1),n=2..infinity);</code>	<code>product(n-1/(n^3-1),n=2..infinity);</code>	<code>sum((n-1)/(n^3-1),n=2..infinity);</code>

203.	Maple da ishlatiladigan barcha funkciyalar xakida malumot olish uchun qaysi buyruqdan foydalaniladi?	? inifunction	? integer	? ininame	? type
204.	Maple 6 da cimvollarni kiritish palitrasi kanday ochiladi?	View – Palettes – Symbol Palette	Insert – Palettes – Expression Palette	View – Palettes – Matrix	View – Palettes – Expression Palette
205.	Maple 6 da matricallarni kiritish uchun shablonli palitralar kanday ochiladi?	View – Palettes – Matrix Palette buyrug'i	Insert – Palettes – Symbol Palette buyrug'i	View – Palettes – Symbol Palette buyrug'i	Insert – Palettes – Expression Palette buyrug'i
206.	Maple da infinity matematik konstantasining manosi nima?	CHeksizlik	Eyler konstantasi	Mantikiy konstanta	Bu konstanta emas
207.	Maple da grafikani aloxida oynada chikarish uchun kaysi buyrukni bajarish kerak?	Options – Plot Display – Windows	Options – Plot Display – Inline	Options – Output Display – Mapl notation	Options – Output Display – Character notation
208.	Maple da ifodani kiritish palitrasi kanday ochiladi?	Insert – Palettes – Expression Palette	View – Palettes – Symbol Palette	View – Palettes – Matrix	Insert – Palettes – Symbol Palette
209.	Maple da aniq integralning matematik kwrinishini chiqarish buyrug'i qanday?	Int(f,x=a..b);	integral(f(x),x);	int(f,x,a,b);	int(f,x=a..b);
210.	Maple da tenglamaning barcha butun echimlarini topish uchun kaysi komanda ishlatiladi?	isolve	solve	msolve	fsolve
211.	$\frac{\sqrt{6+2\sqrt{5}} - \sqrt{6-2\sqrt{5}}}{\sqrt{3}}$ ifodasi Maple da kanday eziladi?	(sqrt(6+2*sqrt(5))-sqrt(6-2*sqrt(5)))/sqrt(3);	(sqr(6+2*sqr(5))-sqr(6-2*sqr(5)))/sqr(3);	(sqrt6+2*sqrt(5)-sqrt6-2*sqrt(5))/sqrt(3);	sqrt(6+2*sqrt(5))-sqrt(6-2*sqrt(5))/sqrt(3);
212.	Maple da numer komandasi nima ish bajaradi?	Kasrning suratini chiqaradi	Ifodada ishlatilgan amallar sonini aniqlaydi	Ifodaning chap tomonini chiqaradi	Kasrning maxrajini chiqaradi
213.	Maple da qaysi komanda kupburchaklar grafigini kwsatadi?	polygonplot	plot	implicitplot	polarplot
214.	Maple da Simvollarni kiritish palitrasi kanday ochiladi?	View – Palettes – Symbol Palette	Insert – Palettes – Expression Palette	View – Palettes – Matrix	Insert – Palettes – Symbol Palette
215.	Maple da grafikani ishchi varagida chikarish uchun kaysi buyrukni bajarish kerak?	Options – Plot Display – Inline	Options – Output Display – Maple notation	Options – Output Display – Character notation	Options – Plot Display – Windows
216.	Maple da surd(1000,3) buyrug'i bajarilgandan keyin natija qanday bwladi?	10	100	1000	1
217.	Maple da qaysi komanda berilgan funkciyaning n-xosilasini xisoblaydi?	diff(f,x\$n);	dsolve(f,x);	Diff(f,x);	Derive(f,x);
218.	% simvoli Maple da kanday vazifani bajaradi?	oldingi ifodani chaqiradi	katorning tugaganligini bildiradi	Foizni xisoblaydi	wzgaruvchilarni aniklashda qwllaniladi
219.	MathCAD da ifodalarni kwpaytuvchilarga ajratish	factor	expand	simplify	Collect

	uchun qanday buyruq qullaniladi?				
220.	MathCAD da ifodani soddalashtirish uchun qanday buyruq qullaniladi?	simplify	expand	factor	collect
221.	MathCAD da wxshash qwshiluvchilarni ixchamlash uchun qanday kalitli swz foydalaniladi?	collect	expand	factor	simplify
222.	Mathcad da matricalar bilan ishlashda rows (A) ichki funkciyasi xizmati	katorlar soni	ustunlar soni	vektor elementlari soni	vektorning keyingi elementi indeksi
223.	Mathcad da vektorlar va matricalar bilan ishlashda length (v) ichki funkciyasi xizmati	vektor elementlari soni	qatorlar soni	ustunlar soni	vektorning keyingi elementi indeksi
224.	Mathcad da matricalar bilan ishlashda cols (A) ichki funkciyasi xizmati	ustunlar soni	vektor elementlari soni	vektorning keyingi elementi indeksi	qatorlar soni
225.	MathCAD da yangi hujjatning dastlabki nomi	Untitled:1	Mathcad:1	Document:1	System:1
226.	MathCAD da $\rightarrow$ belgisi qanday vazifaga ega	Simvolli natija operatori	Wzlashtirish operatori	Keyingi ifodaga wtish belgisi	Qator ifodaga kiritilishin anglatadi
227.	MathCAD da solve operatori hizmatini ayting.	tenglamalarni echadi	funkciya hosilasini hisoblaydi	vektor elementlari soni	tenglamadagi nomalumning oldidagi koefficientlarini aniqlaydi
228.	MathCAD da matricalar ni transpollash qanday bajariladi?	Symbolic (Simvolnie) panelidagi $M^T \rightarrow$ orqali	Symbolic (Simvolnie) panelidagi series orqali	Symbolic (Simvolnie) panelidagi $ M \rightarrow$ orqali	Symbolic (Simvolnie) panelidagi $\rightarrow$ orqali
229.	Funkciyalarni qatorga eyish qanday bajariladi?	Symbolic (Simvolnie) panelidagi series operatori irdamida	Symbolic (Simvolnie) panelidagi coeffs operatori irdamida	Symbolic (Simvolnie) panelidagi $ M \rightarrow$ irdamida	Symbolic (Simvolnie) panelidagi $M^T \rightarrow$ irdamida
230.	MathCAD ning menyu qatori qaysi bandda twgri kwrsatilgan?	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumenti, Simvoli, Okno, Spravka	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumenti	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumenti, Simvoli, Spravka	Fayl, Redaktirovanie, Vid, Vstavit, Format, Instrumenti, Simvoli, Okno
231.	Math paneli necha tugmachalardan iborat?	9	8	7	6
232.	Graph paneli necha xil grafik kwrinishlarni wz ichiga oladi?	9	6	4	8
233.	MathCAD 14 menyu irdamida differenciallash qanday bajariladi?	Symbolics/Variable/Differentiate (Simvolika / Peremennaya/ Differencirot)	Symbolics/Differentiate (Simvolika / Differencirot)	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirot)	Symbolics/Integrate (Simvolika / Integrirot)
234.	MathCAD 14 menyu irdamida integrallash qanday bajariladi?	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirot)	Symbolics/Differentiate (Simvolika / Differencirot)	Symbolics/Variable/Solve (Simvolika / Peremennaya/ Reshit)	Symbolics/Integrate (Simvolika / Integrirot)
235. 2	MathCAD 14 menyu irdamida tenglamalarni echish qanday bajariladi?	Symbolics/Variable/Solve (Simvolika / Peremennaya/ Reshit)	Symbolics/Variable/Differentiate (Simvolika / Peremennaya/ Differencirot)	Symbolics/Variable/Integrate (Simvolika / Peremennaya/ Integrirot)	Symbolics/Integrate (Simvolika / Integrirot)

236. 2	MathCad da floor(x) xizmatini ayting	x dan kichik ěki unga teng eng katta butun sonni qaytaradi	x dan katta ěki unga teng eng kichik butun sonni qaytaradi	x dan kichik ěki unga teng eng katta juft sonni qaytaradi	x dan kichik ěki unga teng eng katta toq sonni qaytaradi
237. 2	$z := 4 - 112 \cdot i$ $\text{Im}(z) \rightarrow$ Natija nimaga teng bwladi?	-112	112	4	-108
238. 2	Eygenvals(A) funkciyasi nimani beradi?	A kvadrat matricaning xos qiymatlarini beradi.	A kvadrat matricaning xos vektorini beradi.	A kvadrat matricaning xos vektorining modulini beradi.	A kvadrat matricaning rangini beradi.
239. 2	MathCad da Eygenvec(A,λ) funkciyasi nimani beradi?	A kvadrat matricaning λ xos qiymatga mos xos vektorini beradi.	A kvadrat matricaning xos sonini beradi.	A kvadrat matricaning xos vektorining modulini beradi.	A kvadrat matricaning rangini beradi.
240. 2	MathCad da ichki funkciyalar (vstroenníe funkci) qanday chaqiriladi?	Insert Function knopkasi ěki Insert menyusí Function ... bwlími ěki Ctrl+E tugmalari ěrdamida	Insert/Graph ěrdamida	Insert/unit ěrdamida	Insert/Area ěrdamida