Индивидуальное задание 14.

Составить матрицу квадратичной формы $Q(x, y, z)$ и привести ее к каноническому виду с помощью перехода к новому базису из собственных векторов. Векторы выводить на экран не нужно. Вывести на экран матрицу в исходном виде и канонической форме, а также саму квадратичную форму в каноническом виде.

Вариант N 1

$$Q = -284x^2 + 20\sqrt{3}xy - 116\sqrt{21}xz + 275y^2 - 30\sqrt{7}yz + 209z^2$$

Вариант N 2

$$Q = -1979x^2 - 30\sqrt{11}xy - 84\sqrt{6}xz + 975y^2 + 60\sqrt{66}yz - 1496z^2$$

Вариант N 3

$$Q = -1281x^2 + 100\sqrt{3}xy - 114\sqrt{11}xz - 400y^2 - 300\sqrt{33}yz + 581z^2$$

Вариант N 4

$$Q = -197x^2 + 4\sqrt{3}xy - 18\sqrt{11}xz + 60y^2 - 12\sqrt{33}yz + 97z^2$$

Вариант N 5

$$Q = 1061x^2 + 128\sqrt{21}xy + 278\sqrt{3}xz - 444y^2 - 384\sqrt{7}yz + 783z^2$$

Вариант N 6

$$Q = -5828x^2 + 60\sqrt{6}xy - 1688\sqrt{6}xz + 2575y^2 - 720yz + 3878z^2$$

Вариант N 7

$$Q = 118119x^2 + 180\sqrt{91}xy + 1254\sqrt{91}xz + 90900y^2 - 5460yz + 100981z^2$$

Вариант N 8

$$Q = 2149x^2 + 12\sqrt{11}xy + 102\sqrt{3}xz + 1604y^2 - 12\sqrt{33}yz + 2047z^2$$

Вариант N 9

$$Q = -21283x^2 + 1440\sqrt{6}xy - 2478\sqrt{91}xz - 11300y^2 - 480\sqrt{546}yz + 12583z^2$$

Вариант N 10

$$Q = 63x^2 - 4\sqrt{3}xy + 98\sqrt{3}xz - 76y^2 + 12yz - 35z^2$$

Вариант N 11

$$Q = 37341x^2 + 840\sqrt{21}xy + 954\sqrt{11}xz - 14100y^2 - 2520\sqrt{231}yz + 21759z^2$$

Вариант N 12

$$Q = -5107x^2 + 60\sqrt{3}xy - 558\sqrt{11}xz + 3500y^2 - 180\sqrt{33}yz + 4007z^2$$

Вариант N 13

$$Q = -537x^2 - 50\sqrt{3}xy - 52\sqrt{6}xz + 25y^2 + 300\sqrt{2}yz - 238z^2$$

Вариант N 14

$$Q = 23584x^2 - 1140\sqrt{91}xy + 8916\sqrt{21}xz + 15725y^2 + 3990\sqrt{39}yz - 14309z^2$$

Вариант N 15

$$Q = 248x^2 + 4\sqrt{21}xy + 54\sqrt{3}xz + 133y^2 - 12\sqrt{7}yz + 194z^2$$

Вариант N 16

$$Q = 6611x^2 + 160\sqrt{21}xy + 264\sqrt{21}xz + 3525y^2 - 1680yz + 5489z^2$$

Вариант N 17

$$Q = -109597x^2 - 180\sqrt{11}xy - 2418\sqrt{11}xz - 40300y^2 + 5940yz - 70103z^2$$

Вариант N 18

$$Q = 10459x^2 - 30\sqrt{91}xy + 3164\sqrt{6}xz - 6475y^2 + 60\sqrt{546}yz - 7734z^2$$

Вариант N 19

$$Q = -8709x^2 + 30\sqrt{91}xy - 2664\sqrt{6}xz + 5225y^2 - 60\sqrt{546}yz + 6609z^2$$

Вариант N 20

$$Q = 20463x^2 - 540\sqrt{91}xy + 2358\sqrt{91}xz + 9300y^2 + 16380yz - 11763z^2$$

Вариант N 21

$$Q = 137527x^2 - 180\sqrt{91}xy + 14838\sqrt{11}xz - 82700y^2 + 540\sqrt{1001}yz - 104827z^2$$

Вариант N 22

$$Q = -127x^2 - 16\sqrt{21}xy - 26\sqrt{3}xz + 48y^2 + 48\sqrt{7}yz - 101z^2$$

Вариант N 23

$$Q = -167x^2 + 34\sqrt{21}xy - 216\sqrt{3}xz - 132y^2 - 102\sqrt{7}yz + 49z^2$$

Вариант N 24

$$Q = -38727x^2 + 540\sqrt{11}xy - 4182\sqrt{91}xz - 4700y^2 - 180\sqrt{1001}yz + 18427z^2$$

Вариант N 25

$$Q = 73x^2 - 4\sqrt{3}xy + 78\sqrt{3}xz - 36y^2 + 12yz - 5z^2$$

Вариант N 26

$$Q = -57x^2 + 28\sqrt{3}xy - 62\sqrt{3}xz - 20y^2 - 84yz + 5z^2$$

Вариант N 27

$$Q = -342x^2 + 20\sqrt{3}xy - 108\sqrt{21}xz + 175y^2 - 30\sqrt{7}yz + 117z^2$$

Вариант N 28

$$Q = -27239x^2 - 720\sqrt{11}xy - 174\sqrt{91}xz + 14600y^2 + 240\sqrt{1001}yz - 24861z^2$$

Вариант N 29

$$Q = -23x^2 - 10\sqrt{3}xy - 6\sqrt{3}xz + 6y^2 + 30yz - 17z^2$$

Вариант N 30

$$Q = 1193x^2 + 60\sqrt{3}xy + 42\sqrt{11}xz - 100y^2 - 180\sqrt{33}yz + 507z^2$$

Вариант N 31

$$Q = 269x^2 + 30\sqrt{3}xy + 24\sqrt{6}xz - 25y^2 - 180\sqrt{2}yz + 131z^2$$

Вариант N 32

$$Q = 12728x^2 - 420\sqrt{11}xy + 4772\sqrt{21}xz + 4825y^2 + 210\sqrt{231}yz - 7553z^2$$

Вариант N 33

$$Q = 8663x^2 + 60\sqrt{21}xy + 348\sqrt{6}xz + 5300y^2 - 360\sqrt{14}yz + 6662z^2$$

Вариант N 34

$$Q = -1503x^2 + 60\sqrt{3}xy - 198\sqrt{91}xz + 1300y^2 - 20\sqrt{273}yz + 1203z^2$$

Вариант N 35

$$Q = 51x^2 - 6\sqrt{3}xy + 6\sqrt{91}xz - 20y^2 + 2\sqrt{273}yz - 31z^2$$

Вариант N 36

$$Q = -5509x^2 - 80\sqrt{21}xy - 464\sqrt{6}xz - 1025y^2 + 480\sqrt{14}yz - 2841z^2$$

Вариант N 37

$$Q = -6443x^2 - 80\sqrt{21}xy - 432\sqrt{21}xz - 3325y^2 + 840yz - 4607z^2$$

Вариант N 38

$$Q = -9559x^2 - 180\sqrt{91}xy - 294\sqrt{91}xz + 3100y^2 + 5460yz - 5541z^2$$

Вариант N 39

$$Q = 17471x^2 + 40\sqrt{21}xy + 174\sqrt{11}xz + 12900y^2 - 120\sqrt{231}yz + 14629z^2$$

Вариант N 40

$$Q = -3957x^2 + 80\sqrt{21}xy - 1668\sqrt{21}xz + 3950y^2 - 840yz + 3132z^2$$

Вариант N 41

$$Q = -89073x^2 - 540\sqrt{11}xy - 618\sqrt{91}xz - 50300y^2 + 180\sqrt{1001}yz - 80627z^2$$

Вариант N 42

$$Q = 76x^2 - 20\sqrt{3}xy + 24\sqrt{21}xz + 30\sqrt{7}yz - 26z^2$$

Вариант N 43

$$Q = 1397x^2 + 20\sqrt{3}xy + 18\sqrt{11}xz + 900y^2 - 60\sqrt{33}yz + 1103z^2$$

Вариант N 44

$$Q = -7284x^2 - 160\sqrt{6}xy - 216\sqrt{21}xz - 3850y^2 + 240\sqrt{14}yz - 6366z^2$$

Вариант N 45

$$Q = -5368x^2 + 240\sqrt{6}xy - 588\sqrt{91}xz - 1050y^2 - 80\sqrt{546}yz + 2668z^2$$

Вариант N 46

$$Q = -9523x^2 - 360\sqrt{6}xy - 318\sqrt{91}xz + 2200y^2 + 120\sqrt{546}yz - 5177z^2$$

Вариант N 47

$$Q = 2001x^2 - 12\sqrt{11}xy + 3198\sqrt{3}xz - 2404y^2 + 12\sqrt{33}yz - 1197z^2$$

Вариант N 48

$$Q = -17309x^2 + 120\sqrt{6}xy - 1794\sqrt{91}xz + 7600y^2 - 40\sqrt{546}yz + 7209z^2$$

Вариант N 49

$$Q = 347x^2 + 6\sqrt{21}xy + 56\sqrt{3}xz + 212y^2 - 18\sqrt{7}yz + 291z^2$$

Вариант N 50

$$Q = 16427x^2 - 90\sqrt{91}xy + 4292\sqrt{6}xz - 3175y^2 + 180\sqrt{546}yz - 8252z^2$$

Вариант N 51

$$Q = -331x^2 + 48\sqrt{6}xy - 438\sqrt{3}xz - 226y^2 - 144\sqrt{2}yz + 107z^2$$

Вариант N 52

$$Q = -781x^2 - 70\sqrt{3}xy - 76\sqrt{6}xz + 25y^2 + 420\sqrt{2}yz - 344z^2$$

Вариант N 53

$$Q = -31909x^2 + 60\sqrt{91}xy - 3546\sqrt{11}xz + 18400y^2 - 180\sqrt{1001}yz + 26009z^2$$

Вариант N 54

$$Q = -39309x^2 + 60\sqrt{91}xy - 4146\sqrt{11}xz + 20900y^2 - 180\sqrt{1001}yz + 28409z^2$$

Вариант N 55

$$Q = -149x^2 - 44\sqrt{3}xy - 54\sqrt{3}xz + 20y^2 + 132yz - 95z^2$$

Вариант N 56

$$Q = 185x^2 - 2\sqrt{3}xy + 60\sqrt{6}xz - 165y^2 + 12\sqrt{2}yz - 160z^2$$

Вариант N 57

$$Q = 22101x^2 + 330\sqrt{91}xy + 1596\sqrt{6}xz - 10025y^2 - 660\sqrt{546}yz + 12924z^2$$

Вариант N 58

$$Q = -109687x^2 - 780\sqrt{11}xy - 1878\sqrt{11}xz + 48700y^2 + 25740yz - 79013z^2$$

Вариант N 59

$$Q = 54731x^2 - 180\sqrt{91}xy + 6846\sqrt{91}xz - 40900y^2 + 5460yz - 38831z^2$$

Вариант N 60

$$Q = 14777x^2 - 80\sqrt{6}xy + 1338\sqrt{11}xz - 2700y^2 + 240\sqrt{66}yz - 7077z^2$$

Вариант N 61

$$Q = 5571x^2 + 420\sqrt{3}xy + 174\sqrt{11}xz - 1500y^2 - 1260\sqrt{33}yz + 2729z^2$$

Вариант N 62

$$Q = -10x^2 + 2\sqrt{3}xy - 12\sqrt{3}xz + 4y^2 - 6yz + 2z^2$$

Вариант N 63

$$Q = 10516x^2 + 30\sqrt{91}xy + 436\sqrt{6}xz + 5850y^2 - 60\sqrt{546}yz + 8009z^2$$

Вариант N 64

$$Q = -3804x^2 + 40\sqrt{6}xy - 1196\sqrt{21}xz + 1900y^2 - 60\sqrt{14}yz + 1279z^2$$

Вариант N 65

$$Q = 168x^2 - 60\sqrt{3}xy + 52\sqrt{21}xz + 45y^2 + 90\sqrt{7}yz - 53z^2$$

Вариант N 66

$$Q = 772x^2 - 300\sqrt{3}xy + 228\sqrt{21}xz + 325y^2 + 450\sqrt{7}yz - 197z^2$$

Вариант N 67

$$Q = -292x^2 + 6\sqrt{91}xy - 416\sqrt{3}xz + 168y^2 - 6\sqrt{273}yz + 124z^2$$

Вариант N 68

$$Q = -7821x^2 - 40\sqrt{6}xy - 304\sqrt{21}xz - 5650y^2 + 60\sqrt{14}yz - 6529z^2$$

Вариант N 69

$$Q = 137x^2 - 68\sqrt{3}xy + 142\sqrt{3}xz + 60y^2 + 204yz - 5z^2$$

Вариант N 70

$$Q = -118027x^2 + 180\sqrt{91}xy - 11838\sqrt{11}xz + 52700y^2 - 540\sqrt{1001}yz + 75327z^2$$

Вариант N 71

$$Q = -4114x^2 - 120\sqrt{21}xy - 174\sqrt{91}xz + 225y^2 + 280\sqrt{39}yz - 1736z^2$$

Вариант N 72

$$Q = 23253x^2 + 540\sqrt{11}xy + 498\sqrt{91}xz - 13700y^2 - 180\sqrt{1001}yz + 16447z^2$$

Вариант N 73

$$Q = -11854x^2 + 60\sqrt{11}xy - 4396\sqrt{21}xz + 8775y^2 - 30\sqrt{231}yz + 6829z^2$$

Вариант N 74

$$Q = -1987x^2 - 100\sqrt{3}xy - 78\sqrt{11}xz + 300y^2 + 300\sqrt{33}yz - 713z^2$$

Вариант N 75

$$Q = -213x^2 + 4\sqrt{6}xy - 274\sqrt{3}xz + 152y^2 - 12\sqrt{2}yz + 61z^2$$

Вариант N 76

$$Q = -357x^2 - 75\sqrt{3}xy - 12\sqrt{91}xz + 75y^2 + 25\sqrt{273}yz - 193z^2$$

Вариант N 77

$$Q = 3147x^2 - 60\sqrt{3}xy + 318\sqrt{11}xz - 1500y^2 + 180\sqrt{33}yz - 2047z^2$$

Вариант N 78

$$Q = 47x^2 + 4\sqrt{3}xy + 18\sqrt{3}xz + 12y^2 - 12yz + 29z^2$$

Вариант N 79

$$Q = 7434x^2 + 320\sqrt{6}xy + 264\sqrt{6}xz - 3350y^2 - 3840yz + 5916z^2$$

Вариант N 80

$$Q = 4454x^2 - 60\sqrt{11}xy + 1796\sqrt{21}xz - 2525y^2 + 30\sqrt{231}yz - 3179z^2$$

Вариант N 81

$$Q = 7264x^2 + 60\sqrt{91}xy + 236\sqrt{21}xz + 3975y^2 - 210\sqrt{39}yz + 6261z^2$$

Вариант N 82

$$Q = -6977x^2 + 40\sqrt{6}xy - 2092\sqrt{6}xz + 4425y^2 - 480yz + 5052z^2$$

Вариант N 83

$$Q = -55x^2 - 20\sqrt{3}xy - 18\sqrt{3}xz + 12y^2 + 60yz - 37z^2$$

Вариант N 84

$$Q = 751x^2 - 110\sqrt{3}xy + 196\sqrt{6}xz + 125y^2 + 660\sqrt{2}yz - 376z^2$$

Вариант N 85

$$Q = 98409x^2 - 60\sqrt{91}xy + 9546\sqrt{11}xz - 50900y^2 + 180\sqrt{1001}yz - 57509z^2$$

Вариант N 86

$$Q = -2301x^2 + 12\sqrt{11}xy - 3398\sqrt{3}xz + 2404y^2 - 12\sqrt{33}yz + 1097z^2$$

Вариант N 87

$$Q = -4057x^2 + 80\sqrt{21}xy - 1568\sqrt{21}xz + 3325y^2 - 840yz + 2607z^2$$

Вариант N 88

$$Q = -9916x^2 - 30\sqrt{91}xy - 336\sqrt{6}xz - 5850y^2 + 60\sqrt{546}yz - 7984z^2$$

Вариант N 89

$$Q = 92909x^2 - 180\sqrt{11}xy + 11394\sqrt{91}xz - 70100y^2 + 60\sqrt{1001}yz - 62809z^2$$

Вариант N 90

$$Q = -14591x^2 - 30\sqrt{91}xy - 1636\sqrt{6}xz - 2725y^2 + 60\sqrt{546}yz - 5184z^2$$

Вариант N 91

$$Q = 129681x^2 + 1140\sqrt{11}xy + 1914\sqrt{11}xz - 88100y^2 - 37620yz + 98419z^2$$

Вариант N 92

$$Q = -2229x^2 - 180\sqrt{3}xy - 114\sqrt{91}xz + 100y^2 + 60\sqrt{273}yz - 671z^2$$

Вариант N 93

$$Q = -15646x^2 + 660\sqrt{91}xy - 5604\sqrt{21}xz - 8775y^2 - 2310\sqrt{39}yz + 8171z^2$$

Вариант N 94

$$Q = -34413x^2 + 880\sqrt{21}xy - 3522\sqrt{11}xz - 13700y^2 - 2640\sqrt{231}yz + 23113z^2$$

Вариант N 95

$$Q = -221x^2 - 8\sqrt{21}xy - 58\sqrt{3}xz - 66y^2 + 24\sqrt{7}yz - 163z^2$$

Вариант N 96

$$Q = -567x^2 - 16\sqrt{21}xy - 66\sqrt{3}xz - 332y^2 + 48\sqrt{7}yz - 501z^2$$

Вариант N 97

$$Q = -1551x^2 + 12\sqrt{11}xy - 2498\sqrt{3}xz + 1804y^2 - 12\sqrt{33}yz + 947z^2$$

Вариант N 98

$$Q = -4173x^2 + 120\sqrt{21}xy - 1452\sqrt{21}xz + 2175y^2 - 1260yz + 1998z^2$$

Вариант N 99

$$Q = -8096x^2 - 80\sqrt{6}xy - 116\sqrt{6}xz - 5100y^2 + 960yz - 7429z^2$$

Вариант N 100

$$Q = -24601x^2 + 60\sqrt{11}xy - 2394\sqrt{11}xz + 5100y^2 - 1980yz + 14501z^2$$

Вариант N 101

$$Q = -83053x^2 + 3060\sqrt{11}xy - 11298\sqrt{91}xz - 78300y^2 - 1020\sqrt{1001}yz + 71353z^2$$

Вариант N 102

$$Q = -10828x^2 + 420\sqrt{11}xy - 4172\sqrt{21}xz - 6075y^2 - 210\sqrt{231}yz + 6903z^2$$

Вариант N 103

$$Q = 6377x^2 - 40\sqrt{6}xy + 1992\sqrt{6}xz - 4425y^2 + 480yz - 5077z^2$$

Вариант N 104

$$Q = 5217x^2 + 520\sqrt{21}xy + 408\sqrt{21}xz - 2450y^2 - 5460yz + 3483z^2$$

Вариант N 105

$$Q = 24619x^2 - 440\sqrt{21}xy + 2286\sqrt{11}xz + 5600y^2 + 1320\sqrt{231}yz - 12719z^2$$

Вариант N 106

$$Q = 9564x^2 + 60\sqrt{91}xy + 436\sqrt{21}xz + 5225y^2 - 210\sqrt{39}yz + 7711z^2$$

Вариант N 107

$$Q = 549x^2 + 8\sqrt{6}xy + 102\sqrt{3}xz + 304y^2 - 24\sqrt{2}yz + 447z^2$$

Вариант N 108

$$Q = -1421x^2 - 32\sqrt{6}xy - 158\sqrt{3}xz - 816y^2 + 96\sqrt{2}yz - 1263z^2$$

Вариант N 109

$$Q = -7761x^2 - 160\sqrt{21}xy - 364\sqrt{21}xz - 4150y^2 + 1680yz - 6214z^2$$

Вариант N 110

$$Q = -733x^2 - 90\sqrt{3}xy - 68\sqrt{6}xz + 125y^2 + 540\sqrt{2}yz - 342z^2$$

Вариант N 111

$$Q = 2837x^2 + 84\sqrt{91}xy + 726\sqrt{3}xz - 548y^2 - 84\sqrt{273}yz + 2111z^2$$

Вариант N 112

$$Q = 1409x^2 - 12\sqrt{91}xy + 1982\sqrt{3}xz - 1236y^2 + 12\sqrt{273}yz - 573z^2$$

Вариант N 113

$$Q = -1049x^2 - 8\sqrt{6}xy - 102\sqrt{3}xz - 804y^2 + 24\sqrt{2}yz - 947z^2$$

Вариант N 114

$$Q = 2926x^2 - 20\sqrt{6}xy + 796\sqrt{6}xz - 1275y^2 + 240yz - 1651z^2$$

Вариант N 115

$$Q = -3589x^2 - 60\sqrt{3}xy - 66\sqrt{11}xz - 1900y^2 + 180\sqrt{33}yz - 2511z^2$$

Вариант N 116

$$Q = 19921x^2 + 40\sqrt{21}xy + 474\sqrt{11}xz + 10400y^2 - 120\sqrt{231}yz + 12179z^2$$

Вариант N 117

$$Q = 1991x^2 + 12\sqrt{91}xy + 818\sqrt{3}xz + 436y^2 - 12\sqrt{273}yz + 1173z^2$$

Вариант N 118

$$Q = -28x^2 - 2\sqrt{3}xy - 4\sqrt{3}xz - 18y^2 + 6yz - 24z^2$$

Вариант N 119

$$Q = -147x^2 + 76\sqrt{3}xy - 154\sqrt{3}xz - 68y^2 - 228yz + 7z^2$$

Вариант N 120

$$Q = 4599x^2 + 12\sqrt{11}xy + 402\sqrt{3}xz + 3604y^2 - 12\sqrt{33}yz + 4197z^2$$

Вариант N 121

$$Q = -171x^2 - 12\sqrt{3}xy - 6\sqrt{91}xz - 40y^2 + 4\sqrt{273}yz - 89z^2$$

Вариант N 122

$$Q = -6429x^2 + 480\sqrt{21}xy - 714\sqrt{91}xz - 2400y^2 - 1120\sqrt{39}yz + 3329z^2$$

Вариант N 123

$$Q = 6426x^2 - 380\sqrt{21}xy + 1796\sqrt{6}xz + 3725y^2 + 2280\sqrt{14}yz - 3901z^2$$

Вариант N 124

$$Q = 4271x^2 + 20\sqrt{21}xy + 416\sqrt{6}xz + 1350y^2 - 120\sqrt{14}yz + 1879z^2$$

Вариант N 125

$$Q = -2829x^2 - 120\sqrt{21}xy - 114\sqrt{91}xz + 600y^2 + 280\sqrt{39}yz - 1271z^2$$

Вариант N 126

$$Q = 29453x^2 - 120\sqrt{6}xy + 3282\sqrt{11}xz - 17800y^2 + 360\sqrt{66}yz - 24153z^2$$

Вариант N 127

$$Q = 61x^2 + 12\sqrt{3}xy + 22\sqrt{3}xz + 4y^2 - 36yz + 39z^2$$

Вариант N 128

$$Q = 222x^2 - 10\sqrt{3}xy + 18\sqrt{11}xz + 25y^2 + 30\sqrt{33}yz - 72z^2$$

Вариант N 129

$$Q = 14971x^2 - 1320\sqrt{21}xy + 1686\sqrt{91}xz + 8100y^2 + 3080\sqrt{39}yz - 8071z^2$$

Вариант N 130

$$Q = 14757x^2 + 360\sqrt{11}xy + 162\sqrt{91}xz - 7300y^2 - 120\sqrt{1001}yz + 12543z^2$$

Вариант N 131

$$Q = -47x^2 + 6\sqrt{3}xy - 12\sqrt{6}xz - 5y^2 - 36\sqrt{2}yz + 22z^2$$

Вариант N 132

$$Q = 12x^2 - 2\sqrt{3}xy + 16\sqrt{3}xz - 8y^2 + 6yz - 4z^2$$

Вариант N 133

$$Q = -1059x^2 - 32\sqrt{21}xy - 82\sqrt{3}xz - 664y^2 + 96\sqrt{7}yz - 977z^2$$

Вариант N 134

$$Q = 371x^2 + 32\sqrt{6}xy + 58\sqrt{3}xz - 84y^2 - 96\sqrt{2}yz + 313z^2$$

Вариант N 135

$$Q = -76x^2 + 2\sqrt{21}xy - 98\sqrt{3}xz + 54y^2 - 6\sqrt{7}yz + 22z^2$$

Вариант N 136

$$Q = -147x^2 - 4\sqrt{3}xy - 26\sqrt{3}xz - 100y^2 + 12yz - 121z^2$$

Вариант N 137

$$Q = -7551x^2 + 30\sqrt{11}xy - 2296\sqrt{6}xz + 3775y^2 - 60\sqrt{66}yz + 5651z^2$$

Вариант N 138

$$Q = 1289x^2 + 30\sqrt{3}xy + 44\sqrt{6}xz + 875y^2 - 180\sqrt{2}yz + 1036z^2$$

Вариант N 139

$$Q = 6771x^2 + 40\sqrt{6}xy + 104\sqrt{21}xz + 5650y^2 - 60\sqrt{14}yz + 6329z^2$$

Вариант N 140

$$Q = 4052x^2 - 60\sqrt{11}xy + 1292\sqrt{6}xz + 1200y^2 + 120\sqrt{66}yz - 3377z^2$$

Вариант N 141

$$Q = 12487x^2 + 20\sqrt{6}xy + 78\sqrt{11}xz + 10050y^2 - 60\sqrt{66}yz + 11213z^2$$

Вариант N 142

$$Q = 2263x^2 - 84\sqrt{91}xy + 2674\sqrt{3}xz + 548y^2 + 84\sqrt{273}yz - 411z^2$$

Вариант N 143

$$Q = -1027x^2 + 30\sqrt{3}xy - 292\sqrt{6}xz + 575y^2 - 180\sqrt{2}yz + 652z^2$$

Вариант N 144

$$Q = 13507x^2 + 60\sqrt{21}xy + 162\sqrt{91}xz + 10200y^2 - 140\sqrt{39}yz + 11293z^2$$

Вариант N 145

$$Q = -26789x^2 - 120\sqrt{21}xy - 474\sqrt{91}xz - 17900y^2 + 280\sqrt{39}yz - 20311z^2$$

Вариант N 146

$$Q = -8168x^2 + 360\sqrt{6}xy - 2328\sqrt{6}xz - 4550y^2 - 4320yz + 5218z^2$$

Вариант N 147

$$Q = 24791x^2 + 30\sqrt{91}xy + 836\sqrt{6}xz + 17725y^2 - 60\sqrt{546}yz + 19984z^2$$

Вариант N 148

$$Q = -21211x^2 + 120\sqrt{21}xy - 2526\sqrt{91}xz + 15400y^2 - 280\sqrt{39}yz + 13311z^2$$

Вариант N 149

$$Q = -13x^2 - 2\sqrt{3}xy - 2\sqrt{3}xz - 6y^2 + 6yz - 11z^2$$

Вариант N 150

$$Q = 17459x^2 - 270\sqrt{11}xy + 5164\sqrt{6}xz + 8525y^2 + 540\sqrt{66}yz - 12234z^2$$

Вариант N 151

$$Q = 11809x^2 - 30\sqrt{91}xy + 2764\sqrt{6}xz - 2725y^2 + 60\sqrt{546}yz - 4084z^2$$

Вариант N 152

$$Q = -2441x^2 + 40\sqrt{21}xy - 684\sqrt{21}xz + 725y^2 - 420yz + 466z^2$$

Вариант N 153

$$Q = 10636x^2 - 540\sqrt{11}xy + 4364\sqrt{21}xz + 9775y^2 + 270\sqrt{231}yz - 7911z^2$$

Вариант N 154

$$Q = -3203x^2 + 320\sqrt{21}xy - 1172\sqrt{21}xz - 450y^2 - 3360yz + 1778z^2$$

Вариант N 155

$$Q = -701x^2 + 12\sqrt{11}xy - 1198\sqrt{3}xz + 704y^2 - 12\sqrt{33}yz + 497z^2$$

Вариант N 156

$$Q = 4371x^2 + 260\sqrt{3}xy + 174\sqrt{11}xz - 1100y^2 - 780\sqrt{33}yz + 1529z^2$$

Вариант N 157

$$Q = 439x^2 + 50\sqrt{3}xy + 44\sqrt{6}xz - 75y^2 - 300\sqrt{2}yz + 186z^2$$

Вариант N 158

$$Q = 50127x^2 - 540\sqrt{11}xy + 6582\sqrt{91}xz - 20300y^2 + 180\sqrt{1001}yz - 39827z^2$$

Вариант N 159

$$Q = 29921x^2 + 160\sqrt{6}xy + 474\sqrt{11}xz + 12900y^2 - 480\sqrt{66}yz + 22179z^2$$

Вариант N 160

$$Q = 131x^2 - 12\sqrt{3}xy + 186\sqrt{3}xz - 124y^2 + 36yz - 55z^2$$

Вариант N 161

$$Q = 119599x^2 + 60\sqrt{11}xy + 2406\sqrt{11}xz + 70100y^2 - 1980yz + 80301z^2$$

Вариант N 162

$$Q = -2377x^2 + 60\sqrt{3}xy - 282\sqrt{91}xz + 1700y^2 - 20\sqrt{273}yz + 1477z^2$$

Вариант N 163

$$Q = 17023x^2 + 360\sqrt{6}xy + 318\sqrt{91}xz + 5300y^2 - 120\sqrt{546}yz + 12677z^2$$

Вариант N 164

$$Q = 8031x^2 + 380\sqrt{6}xy + 376\sqrt{6}xz - 5150y^2 - 4560yz + 5869z^2$$

Вариант N 165

$$Q = 11193x^2 + 210\sqrt{11}xy + 228\sqrt{6}xz - 7325y^2 - 420\sqrt{66}yz + 9882z^2$$

Вариант N 166

$$Q = 407x^2 - 64\sqrt{21}xy + 486\sqrt{3}xz + 222y^2 + 192\sqrt{7}yz - 79z^2$$

Вариант N 167

$$Q = -5029x^2 - 180\sqrt{3}xy - 114\sqrt{91}xz - 2700y^2 + 60\sqrt{273}yz - 3471z^2$$

Вариант N 168

$$Q = -75x^2 + 28\sqrt{3}xy - 74\sqrt{3}xz - 20y^2 - 84yz - z^2$$

Вариант N 169

$$Q = 69591x^2 + 60\sqrt{91}xy + 2454\sqrt{11}xz + 20900y^2 - 180\sqrt{1001}yz + 29509z^2$$

Вариант N 170

$$Q = -3919x^2 - 60\sqrt{3}xy - 54\sqrt{91}xz - 2900y^2 + 20\sqrt{273}yz - 3181z^2$$

Вариант N 171

$$Q = 4297x^2 + 60\sqrt{6}xy + 312\sqrt{6}xz + 700y^2 - 720yz + 2503z^2$$

Вариант N 172

$$Q = -4313x^2 - 60\sqrt{21}xy - 248\sqrt{6}xz - 1550y^2 + 360\sqrt{14}yz - 2887z^2$$

Вариант N 173

$$Q = -14649x^2 - 180\sqrt{6}xy - 234\sqrt{91}xz - 7650y^2 + 60\sqrt{546}yz - 11451z^2$$

Вариант N 174

$$Q = -\frac{355x^2}{2} + 6\sqrt{3}xy - 15\sqrt{11}xz + 10y^2 - 18\sqrt{33}yz + \frac{135z^2}{2}$$

Вариант N 175

$$Q = -943x^2 + 150\sqrt{3}xy - 228\sqrt{6}xz - 325y^2 - 900\sqrt{2}yz + 368z^2$$

Вариант N 176

$$Q = 53533x^2 + 1260\sqrt{91}xy + 978\sqrt{91}xz - 18700y^2 - 38220yz + 40167z^2$$

Вариант N 177

$$Q = -8162x^2 - 720\sqrt{21}xy - 588\sqrt{21}xz + 2575y^2 + 7560yz - 5663z^2$$

Вариант N 178

$$Q = -34379x^2 + 160\sqrt{6}xy - 3726\sqrt{11}xz + 17900y^2 - 480\sqrt{66}yz + 26479z^2$$

Вариант N 179

$$Q = 631x^2 + 88\sqrt{21}xy + 138\sqrt{3}xz - 324y^2 - 264\sqrt{7}yz + 493z^2$$

Вариант N 180

$$Q = -1746x^2 - 15\sqrt{11}xy - 24\sqrt{11}xz + 1100y^2 + 495yz - 1354z^2$$

Вариант N 181

$$Q = -203x^2 + 20\sqrt{3}xy - 72\sqrt{21}xz + 125y^2 - 30\sqrt{7}yz + 103z^2$$

Вариант N 182

$$Q = -59201x^2 + 60\sqrt{11}xy - 4794\sqrt{11}xz + 10100y^2 - 1980yz + 19101z^2$$

Вариант N 183

$$Q = -849x^2 - 8\sqrt{6}xy - 102\sqrt{3}xz - 604y^2 + 24\sqrt{2}yz - 747z^2$$

Вариант N 184

$$Q = 4084x^2 - 180\sqrt{6}xy + 1164\sqrt{6}xz + 2275y^2 + 2160yz - 2609z^2$$

Вариант N 185

$$Q = 597x^2 + 50\sqrt{3}xy + 18\sqrt{11}xz - 200y^2 - 150\sqrt{33}yz + 303z^2$$

Вариант N 186

$$Q = -8363x^2 - 540\sqrt{21}xy - 258\sqrt{91}xz + 3200y^2 + 1260\sqrt{39}yz - 4837z^2$$

Вариант N 187

$$Q = 49x^2 - 28\sqrt{3}xy + 62\sqrt{3}xz + 12y^2 + 84yz - 13z^2$$

Вариант N 188

$$Q = 3897x^2 + 36\sqrt{11}xy + 206\sqrt{3}xz + 2412y^2 - 36\sqrt{33}yz + 3691z^2$$

Вариант N 189

$$Q = -8729x^2 - 15\sqrt{91}xy - 126\sqrt{11}xz - 4600y^2 + 45\sqrt{1001}yz - 6671z^2$$

Вариант N 190

$$Q = 6853x^2 + 130\sqrt{6}xy + 132\sqrt{11}xz - 2800y^2 - 390\sqrt{66}yz + 4697z^2$$

Вариант N 191

$$Q = 6946x^2 - 570\sqrt{21}xy + 786\sqrt{91}xz + 3100y^2 + 1330\sqrt{39}yz - 3796z^2$$

Вариант N 192

$$Q = -5251x^2 + 180\sqrt{6}xy - 666\sqrt{91}xz + 1400y^2 - 60\sqrt{546}yz + 3851z^2$$

Вариант N 193

$$Q = 12408x^2 - 180\sqrt{91}xy + 5092\sqrt{21}xz - 8175y^2 + 630\sqrt{39}yz - 9233z^2$$

Вариант N 194

$$Q = -9123x^2 - 90\sqrt{21}xy - 168\sqrt{91}xz - 5300y^2 + 210\sqrt{39}yz - 6827z^2$$

Вариант N 195

$$Q = -5266x^2 + 80\sqrt{21}xy - 1436\sqrt{6}xz + 1650y^2 - 480\sqrt{14}yz + 2991z^2$$

Вариант N 196

$$Q = -17093x^2 + 240\sqrt{6}xy - 1938\sqrt{91}xz + 7700y^2 - 80\sqrt{546}yz + 9393z^2$$

Вариант N 197

$$Q = -8737x^2 - 30\sqrt{11}xy - 78\sqrt{11}xz - 2550y^2 + 990yz - 7463z^2$$

Вариант N 198

$$Q = 693x^2 + 10\sqrt{3}xy + 28\sqrt{6}xz + 475y^2 - 60\sqrt{2}yz + 532z^2$$

Вариант N 199

$$Q = 4227x^2 + 120\sqrt{21}xy + 148\sqrt{21}xz + 2175y^2 - 1260yz + 3598z^2$$

Вариант N 200

$$Q = 849x^2 + 8\sqrt{6}xy + 102\sqrt{3}xz + 604y^2 - 24\sqrt{2}yz + 747z^2$$