Индивидуальное задание.

Через все точки пересечения графиков функций $f(x)$ и $g(x)$ провести горизонтальные прямые. Изобразить на графике $f(x)$ зеленым цветом, $g(x)$ красным, горизонтальные линии черным. Формулы для $f(x)$ и $g(x)$ включить в легенду (например, как $f(x) = 3x^2 + 5x - 7$).

Вариант 1

$$f(x) = -\frac{x^2}{9} + \frac{4x}{3} + 4$$
$$g(x) = \frac{7x^2}{9} + \frac{4x}{3} - 4$$

Вариант 2

$$f(x) = \frac{x^2}{4} + 2x + 8$$
$$g(x) = \frac{3x^2}{2} + 2x + 3$$

Вариант 3

$$f(x) = \frac{(17 - x)(x + 3)}{16}$$
$$g(x) = \frac{(x + 3)(7x - 23)}{16}$$

Вариант 4

$$f(x) = -\frac{x^2}{16} + x + \frac{21}{4}$$
$$g(x) = \frac{5x^2}{16} - \frac{x}{2} + \frac{3}{4}$$

Вариант 5

$$f(x) = -\frac{x^2}{4} + x + \frac{13}{4}$$
$$g(x) = \frac{5x^2}{4} + 4x - \frac{5}{4}$$

Вариант 6

$$f(x) = \frac{x^2}{4} + 2x + \frac{27}{4}$$
$$g(x) = \frac{3(x + 1)(x + 2)}{2}$$

Вариант 7

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} + \frac{35}{9}$$
$$g(x) = \frac{(x - 1)(7x + 5)}{9}$$

Вариант 8

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} - \frac{1}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} - \frac{41}{9}$$

Вариант 9

$$f(x) = \frac{x^2}{6} + \frac{5x}{6} + 3$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} - \frac{5}{9}$$

Вариант 10

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{115}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{5}{8}$$

Вариант 11

$$f(x) = \frac{x\,(21 - x)}{18}$$
$$g(x) = \frac{13x^2}{18} + \frac{7x}{6} - 7$$

Вариант 12

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 8$$
$$g(x) = \frac{13x^2}{8} + \frac{33x}{4} + 8$$

Вариант 13

$$f(x) = -\frac{x^2}{9} + x + 1$$
$$g(x) = \frac{7x^2}{9} + x - 7$$

Вариант 14

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} + 7$$
$$g(x) = \frac{11x^2}{32} + \frac{7x}{8} + 2$$

Вариант 15

$$f(x) = \frac{x^2}{4} + \frac{3x}{2} + 7$$
$$g(x) = \frac{5x^2}{4} + \frac{3x}{2} + 3$$

Вариант 16

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{115}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{5}{8}$$

Вариант 17

$$f(x) = \frac{(17 - x)(x + 3)}{16}$$
$$g(x) = \frac{(x + 3)(7x - 23)}{16}$$

Вариант 18

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{37}{9}$$
$$g(x) = \frac{13x^2}{18} + \frac{47x}{18} - \frac{19}{9}$$

Вариант 19

$$f(x) = \frac{x^2}{32} + \frac{3x}{4} + \frac{51}{8}$$
$$g(x) = \frac{11x^2}{32} - \frac{x}{2} + \frac{21}{8}$$

Вариант 20

$$f(x) = -\frac{x^2}{18} + \frac{23x}{18} + \frac{43}{9}$$
$$g(x) = \frac{5x^2}{6} - \frac{x}{2} - \frac{7}{3}$$

Вариант 21

$$f(x) = \frac{(x - 1)(3x + 25)}{32}$$
$$g(x) = \frac{15x^2}{32} - \frac{x}{16} - \frac{205}{32}$$

Вариант 22

$$f(x) = -\frac{x^2}{4} + \frac{3x}{2} + 8$$
$$g(x) = \frac{x(7x + 6)}{4}$$

Вариант 23

$$f(x) = \frac{x(x + 12)}{9}$$
$$g(x) = \frac{2x^2}{3} + \frac{4x}{3} - 5$$

Вариант 24

$$f(x) = (6 - x)\left(\frac{x}{4} + 1\right)$$
$$g(x) = \left(\frac{x}{4} + 1\right)(7x + 6)$$

Вариант 25

$$f(x) = \frac{(x + 2)(3x + 20)}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{29x}{4} + 5$$

Вариант 26

$$f(x) = \frac{3x^2}{8} + \frac{5x}{2} + \frac{1}{8}$$
$$g(x) = \frac{13x^2}{8} + 5x - \frac{29}{8}$$

Вариант 27

$$f(x) = \frac{x^2}{4} + 2x + 6$$
$$g(x) = \frac{x(7x + 8)}{4}$$

Вариант 28

$$f(x) = \frac{x^2}{9} + x + 1$$
$$g(x) = \frac{5x^2}{9} + x - 3$$

Вариант 29

$$f(x) = -\frac{x^2}{4} + \frac{3x}{2} + 7$$
$$g(x) = \frac{5x^2}{4} + \frac{3x}{2} + 1$$

Вариант 30

$$f(x) = \frac{x^2}{4} + 2x + 7$$
$$g(x) = \frac{7x^2}{4} + 2x + 1$$

Вариант 31

$$f(x) = -\frac{x^2}{9} + \frac{7x}{9} + \frac{71}{9}$$
$$g(x) = \frac{(x + 1)(2x + 5)}{3}$$

Вариант 32

$$f(x) = -\frac{x^2}{32} + x + \frac{25}{8}$$
$$g(x) = \frac{13x^2}{32} - \frac{3x}{4} - \frac{17}{8}$$

Вариант 33

$$f(x) = \frac{x^2}{4} + 3x + 4$$
$$g(x) = \frac{7x^2}{4} + 9x + 4$$

Вариант 34

$$f(x) = \frac{x^2}{9} + x + 4$$
$$g(x) = \frac{x\,(5x+9)}{9}$$

Вариант 35

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{67}{16}$$
$$g(x) = \frac{7x^2}{16} - \frac{x}{8} - \frac{53}{16}$$

Вариант 36

$$f(x) = \frac{x^2}{6} + \frac{3x}{2} + \frac{25}{3}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} + \frac{43}{9}$$

Вариант 37

$$f(x) = \frac{x^2}{4} + 2x + \frac{23}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{9x}{2} + 2$$

Вариант 38

$$f(x) = \frac{(x+3)\,(x+9)}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{4x}{3} - 4$$

Вариант 39

$$f(x) = \frac{(16-x)\,(x+4)}{16}$$
$$g(x) = \frac{(x+4)\,(7x-16)}{16}$$

Вариант 40

$$f(x) = -\frac{x^2}{9} + \frac{4x}{3} + 8$$
$$g(x) = \frac{x\,(7x + 12)}{9}$$

Вариант 41

$$f(x) = -\frac{x^2}{9} + \frac{4x}{3} + 1$$
$$g(x) = \frac{2x^2}{3} + \frac{4x}{3} - 6$$

Вариант 42

$$f(x) = -\frac{x^2}{16} + \frac{5x}{4} - \frac{1}{4}$$
$$g(x) = \frac{7x^2}{16} - \frac{3x}{4} - \frac{25}{4}$$

Вариант 43

$$f(x) = \frac{(18 - x)\,(x + 2)}{16}$$
$$g(x) = \frac{3\,(x - 4)\,(x + 2)}{8}$$

Вариант 44

$$f(x) = \frac{x^2}{4} + 2x + \frac{11}{4}$$
$$g(x) = \frac{7x^2}{4} + 5x - \frac{7}{4}$$

Вариант 45

$$f(x) = \frac{x^2}{32} + \frac{13x}{16} + \frac{165}{32}$$
$$g(x) = \frac{11x^2}{32} + \frac{3x}{16} + \frac{15}{32}$$

Вариант 46

$$f(x) = -\frac{x^2}{16} + \frac{9x}{8} + \frac{111}{16}$$
$$g(x) = \frac{x^2}{2} - \frac{3}{2}$$

Вариант 47

$$f(x) = -\frac{x^2}{32} + \frac{7x}{8} + 2$$
$$g(x) = \frac{11x^2}{32} + \frac{7x}{8} - 4$$

Вариант 48

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} - \frac{3}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{9}{2}$$

Вариант 49

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} + \frac{25}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} + \frac{5}{2}$$

Вариант 50

$$f(x) = \frac{x^2}{8} + x - 2$$
$$g(x) = \frac{3x^2}{8} + x - 6$$

Вариант 51

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{113}{16}$$
$$g(x) = \frac{7x^2}{16} + \frac{x}{8} + \frac{23}{16}$$

Вариант 52

$$f(x) = \frac{x^2}{16} + \frac{5x}{8} + \frac{5}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{x}{8} - \frac{55}{16}$$

Вариант 53

$$f(x) = \frac{(x-1)(x+11)}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{x}{8} - \frac{71}{16}$$

Вариант 54

$$f(x) = \frac{x^2}{8} + 2x + \frac{71}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{9x}{2} + \frac{41}{8}$$

Вариант 55

$$f(x) = -\frac{x^2}{9} + x + 6$$
$$g(x) = \frac{x(5x+9)}{9}$$

Вариант 56

$$f(x) = \frac{(x+4)(x+5)}{6}$$
$$g(x) = \frac{(x+4)(13x-5)}{18}$$

Вариант 57

$$f(x) = -\frac{x^2}{16} + \frac{5x}{4} - \frac{5}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{13}{2}$$

Вариант 58

$$f(x) = \frac{x^2}{2} + 2x - 2$$
$$g(x) = \frac{3x^2}{2} + 2x - 6$$

Вариант 59

$$f(x) = -\frac{x^2}{8} + \frac{5x}{4} + 6$$
$$g(x) = \frac{15x^2}{8} + \frac{37x}{4} + 6$$

Вариант 60

$$f(x) = \frac{x^2}{4} + 2x + 7$$
$$g(x) = \frac{7x^2}{4} + 2x + 1$$

Вариант 61

$$f(x) = \frac{(7-x)(x+3)}{4}$$
$$g(x) = \frac{3x(x+3)}{2}$$

Вариант 62

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{81}{16}$$
$$g(x) = \frac{x^2}{2} - \frac{3}{2}$$

Вариант 63

$$f(x) = \frac{3x^2}{32} + \frac{7x}{8} + 6$$
$$g(x) = \frac{x(15x+28)}{32}$$

Вариант 64

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} + \frac{26}{9}$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} - \frac{14}{9}$$

Вариант 65

$$f(x) = -\frac{x^2}{4} + \frac{3x}{2} + \frac{19}{4}$$
$$g(x) = \frac{7x^2}{4} + \frac{11x}{2} - \frac{5}{4}$$

Вариант 66

$$f(x) = \frac{(29 - x)(x - 1)}{32}$$
$$g(x) = \frac{15x^2}{32} - \frac{x}{16} - \frac{269}{32}$$

Вариант 67

$$f(x) = -\frac{x^2}{18} + \frac{23x}{18} + \frac{70}{9}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} + \frac{14}{9}$$

Вариант 68

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} + \frac{62}{9}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} + \frac{14}{9}$$

Вариант 69

$$f(x) = \frac{(32 - x)(x + 4)}{32}$$
$$g(x) = \frac{(x + 4)(13x - 24)}{32}$$

Вариант 70

$$f(x) = \frac{3x^2}{32} + \frac{11x}{16} - \frac{89}{32}$$
$$g(x) = \frac{15x^2}{32} - \frac{x}{16} - \frac{269}{32}$$

Вариант 71

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{99}{16}$$
$$g(x) = \frac{3x^2}{8} - \frac{3}{8}$$

Вариант 72

$$f(x) = -\frac{x^2}{4} + \frac{3x}{2} + 5$$
$$g(x) = \frac{5x^2}{4} + \frac{3x}{2} - 1$$

Вариант 73

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{1}{16}$$
$$g(x) = \frac{7x^2}{16} + \frac{x}{8} - \frac{89}{16}$$

Вариант 74

$$f(x) = \frac{(x+2)(3x+20)}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{37x}{4} + 5$$

Вариант 75

$$f(x) = \left(\frac{x}{4} + 1\right)(x+8)$$
$$g(x) = 2(x+1)(x+4)$$

Вариант 76

$$f(x) = \frac{(12-x)(x+2)}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{29x}{4} + 3$$

Вариант 77

$$f(x) = \frac{x^2}{2} + 4x + 11$$
$$g(x) = \frac{3x^2}{2} + 8x + 11$$

Вариант 78

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{67}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} + \frac{11}{9}$$

Вариант 79

$$f(x) = \frac{x^2}{9} + \frac{11x}{9} + \frac{55}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{23x}{9} + \frac{7}{9}$$

Вариант 80

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 11$$
$$g(x) = \frac{(x+2)(15x+44)}{8}$$

Вариант 81

$$f(x) = -\frac{x^2}{8} + \frac{3x}{2} + \frac{37}{8}$$
$$g(x) = \frac{13x^2}{8} + 5x - \frac{5}{8}$$

Вариант 82

$$f(x) = \frac{x^2}{2} + 2x + 7$$
$$g(x) = 2x^2 + 2x + 1$$

Вариант 83

$$f(x) = -\frac{x^2}{16} + \frac{9x}{8} + \frac{47}{16}$$
$$g(x) = \frac{x^2}{2} - \frac{11}{2}$$

Вариант 84

$$f(x) = -\frac{x^2}{16} + \frac{3x}{4} + 7$$
$$g(x) = \frac{7x^2}{16} + \frac{3x}{4} - 1$$

Вариант 85

$$f(x) = -\frac{x^2}{18} + \frac{23x}{18} + \frac{43}{9}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} - \frac{13}{9}$$

Вариант 86

$$f(x) = \frac{3x^2}{8} + \frac{13x}{4} + 12$$
$$g(x) = \frac{13x^2}{8} + \frac{33x}{4} + 12$$

Вариант 87

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{101}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} + \frac{29}{9}$$

Вариант 88

$$f(x) = \frac{x^2}{9} + \frac{4x}{3} - 1$$
$$g(x) = \frac{2x^2}{3} + \frac{4x}{3} - 6$$

Вариант 89

$$f(x) = \frac{x^2}{8} + \frac{x}{2} + \frac{3}{2}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{3}{2}$$

Вариант 90

$$f(x) = \frac{3x^2}{32} + \frac{x}{2} - \frac{27}{8}$$
$$g(x) = \frac{13x^2}{32} - \frac{3x}{4} - \frac{57}{8}$$

Вариант 91

$$f(x) = \frac{x\,(6-x)}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{3x}{2} - 7$$

Вариант 92

$$f(x) = -\frac{x^2}{16} + x + 10$$
$$g(x) = \frac{7x^2}{16} + x + 2$$

Вариант 93

$$f(x) = -\frac{x^2}{9} + x + 5$$
$$g(x) = \frac{7x^2}{9} + x - 3$$

Вариант 94

$$f(x) = \frac{x^2}{6} + \frac{7x}{6} + 5$$
$$g(x) = \frac{x\,(13x+21)}{18}$$

Вариант 95

$$f(x) = \frac{x^2}{32} + \frac{13x}{16} + \frac{197}{32}$$
$$g(x) = \frac{13x^2}{32} + \frac{x}{16} + \frac{17}{32}$$

Вариант 96

$$f(x) = \frac{x^2}{8} + \frac{7x}{4} + 4$$
$$g(x) = \frac{13x^2}{8} + \frac{7x}{4} - 2$$

Вариант 97

$$f(x) = -\frac{x^2}{4} + 2x + 4$$
$$g(x) = 2x^2 + 2x - 5$$

Вариант 98

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} - 1$$
$$g(x) = \frac{15x^2}{32} + \frac{7x}{8} - 8$$

Вариант 99

$$f(x) = -\frac{x^2}{8} + \frac{7x}{4} + 2$$
$$g(x) = \frac{15x^2}{8} + \frac{7x}{4} - 6$$

Вариант 100

$$f(x) = \frac{(7-x)(x+3)}{4}$$
$$g(x) = \frac{3x(x+3)}{2}$$

Вариант 101

$$f(x) = -\frac{x^2}{9} + \frac{7x}{9} + \frac{26}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{23x}{9} - \frac{38}{9}$$

Вариант 102

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} - \frac{11}{4}$$
$$g(x) = \frac{7x^2}{16} - \frac{3x}{4} - \frac{29}{4}$$

Вариант 103

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{29}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{26x}{9} - \frac{35}{9}$$

Вариант 104

$$f(x) = -\frac{x^2}{9} + x + 5$$
$$g(x) = \frac{7x^2}{9} + x - 3$$

Вариант 105

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} - \frac{3}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{9}{2}$$

Вариант 106

$$f(x) = -\frac{x^2}{16} + x + \frac{21}{4}$$
$$g(x) = \frac{7x^2}{16} - x - \frac{3}{4}$$

Вариант 107

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{28}{9}$$
$$g(x) = \frac{5x^2}{6} + \frac{17x}{6} - 4$$

Вариант 108

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{74}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} + \frac{2}{9}$$

Вариант 109

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{83}{9}$$
$$g(x) = \frac{(x+1)(7x+19)}{9}$$

Вариант 110

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{55}{9}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} + \frac{7}{9}$$

Вариант 111

$$f(x) = -\frac{x^2}{16} + x + \frac{17}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{3x}{4} - 1$$

Вариант 112

$$f(x) = -\frac{x^2}{8} + \frac{7x}{4} + 3$$
$$g(x) = \frac{13x^2}{8} + \frac{7x}{4} - 4$$

Вариант 113

$$f(x) = -\frac{x^2}{8} + \frac{3x}{2} + \frac{21}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{9x}{2} - \frac{15}{8}$$

Вариант 114

$$f(x) = \frac{(x+4)(3x+14)}{8}$$
$$g(x) = \frac{(x+4)(13x+14)}{8}$$

Вариант 115

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 8$$
$$g(x) = \frac{13x^2}{8} + \frac{33x}{4} + 8$$

Вариант 116

$$f(x) = \frac{3x^2}{32} + \frac{x}{2} + \frac{21}{8}$$
$$g(x) = \frac{(x-2)(11x+6)}{32}$$

Вариант 117

$$f(x) = \frac{3x^2}{8} + \frac{5x}{2} + \frac{1}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{9x}{2} - \frac{23}{8}$$

Вариант 118

$$f(x) = \frac{(x+4)(x+8)}{16}$$
$$g(x) = \frac{3(x-2)(x+4)}{8}$$

Вариант 119

$$f(x) = \frac{3x^2}{8} + \frac{7x}{4} + 4$$
$$g(x) = \frac{13x^2}{8} + \frac{7x}{4} - 1$$

Вариант 120

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{82}{9}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} + \frac{34}{9}$$

Вариант 121

$$f(x) = -\frac{x^2}{9} + x + 7$$
$$g(x) = \frac{7x^2}{9} + x - 1$$

Вариант 122

$$f(x) = -\frac{x^2}{32} + \frac{15x}{16} + \frac{131}{32}$$
$$g(x) = \frac{11x^2}{32} + \frac{3x}{16} - \frac{49}{32}$$

Вариант 123

$$f(x) = \frac{x^2}{18} + \frac{23x}{18} + \frac{29}{9}$$
$$g(x) = \frac{5x^2}{6} + \frac{17x}{6} - 3$$

Вариант 124

$$f(x) = \frac{3x^2}{8} + \frac{13x}{4} + 6$$
$$g(x) = \frac{15x^2}{8} + \frac{37x}{4} + 6$$

Вариант 125

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{35}{9}$$
$$g(x) = \frac{5x^2}{9} - \frac{x}{9} - \frac{13}{9}$$

Вариант 126

$$f(x) = \frac{x^2}{16} + x + 8$$
$$g(x) = \frac{3x^2}{8} + x + 3$$

Вариант 127

$$f(x) = \frac{x^2}{4} + 3x + 12$$
$$g(x) = \frac{3x^2}{2} + 8x + 12$$

Вариант 128

$$f(x) = \frac{x^2}{6} + \frac{3x}{2} + \frac{1}{3}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} - \frac{29}{9}$$

Вариант 129

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{131}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{x}{8} + \frac{41}{16}$$

Вариант 130

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 11$$
$$g(x) = \frac{(x+2)(15x+44)}{8}$$

Вариант 131

$$f(x) = \frac{x^2}{8} + 2x + \frac{47}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{9x}{2} + \frac{17}{8}$$

Вариант 132

$$f(x) = \frac{x^2}{8} + 2x + \frac{23}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} - \frac{19}{8}$$

Вариант 133

$$f(x) = \frac{x^2}{8} + \frac{3x}{4} + \frac{49}{8}$$
$$g(x) = \frac{x^2}{2} + \frac{1}{2}$$

Вариант 134

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} + 6$$
$$g(x) = \frac{11x^2}{32} + \frac{7x}{8} + 1$$

Вариант 135

$$f(x) = \frac{x^2}{6} + \frac{7x}{6} - 2$$
$$g(x) = \frac{5x^2}{6} + \frac{7x}{6} - 8$$

Вариант 136

$$f(x) = \frac{x^2}{16} + x + 5$$
$$g(x) = \frac{x^2}{2} + x - 2$$

Вариант 137

$$f(x) = \frac{3x^2}{8} + \frac{5x}{2} + \frac{9}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{9x}{2} - \frac{15}{8}$$

Вариант 138

$$f(x) = \frac{x^2}{16} + x + 1$$
$$g(x) = \frac{3x^2}{8} + x - 4$$

Вариант 139

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + \frac{25}{4}$$
$$g(x) = \frac{7x^2}{4} + \frac{11x}{2} + \frac{7}{4}$$

Вариант 140

$$f(x) = -\frac{x^2}{16} + x + 5$$
$$g(x) = \frac{3x^2}{8} + x - 2$$

Вариант 141

$$f(x) = \frac{3x^2}{8} + \frac{7x}{4} + 3$$
$$g(x) = \frac{11x^2}{8} + \frac{7x}{4} - 1$$

Вариант 142

$$f(x) = \frac{x^2}{2} + 4x + 11$$
$$g(x) = \frac{3x^2}{2} + 8x + 11$$

Вариант 143

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + \frac{13}{4}$$
$$g(x) = 2x^2 + 6x - 2$$

Вариант 144

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{22}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} - \frac{34}{9}$$

Вариант 145

$$f(x) = -\frac{x^2}{32} + \frac{15x}{16} + \frac{35}{32}$$
$$g(x) = \frac{13x^2}{32} + \frac{x}{16} - \frac{175}{32}$$

Вариант 146

$$f(x) = -\frac{x^2}{9} + \frac{4x}{3} + 3$$
$$g(x) = \frac{2x^2}{3} + \frac{4x}{3} - 4$$

Вариант 147

$$f(x) = -\frac{x^2}{4} + x + \frac{41}{4}$$
$$g(x) = \frac{5x^2}{4} + 4x + \frac{23}{4}$$

Вариант 148

$$f(x) = -\frac{x^2}{4} + \frac{3x}{2} + \frac{35}{4}$$
$$g(x) = \frac{7x^2}{4} + \frac{11x}{2} + \frac{11}{4}$$

Вариант 149

$$f(x) = \frac{x^2}{16} + \frac{5x}{8} + \frac{69}{16}$$
$$g(x) = \frac{3x^2}{8} - \frac{3}{8}$$

Вариант 150

$$f(x) = \frac{x^2}{4} + \frac{3x}{2} - 2$$
$$g(x) = \frac{7x^2}{4} + \frac{3x}{2} - 8$$

Вариант 151

$$f(x) = \frac{x^2}{8} + x + 4$$
$$g(x) = \frac{x\,(3x+8)}{8}$$

Вариант 152

$$f(x) = -\frac{x^2}{9} + \frac{4x}{3} + 2$$
$$g(x) = \frac{7x^2}{9} + \frac{4x}{3} - 6$$

Вариант 153

$$f(x) = \frac{(14 - x)(x - 2)}{16}$$
$$g(x) = \frac{5x^2}{16} - \frac{x}{2} - \frac{25}{4}$$

Вариант 154

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{131}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{x}{8} + \frac{41}{16}$$

Вариант 155

$$f(x) = -\frac{x^2}{16} + \frac{3x}{4} + 7$$
$$g(x) = \frac{5x^2}{16} + \frac{3x}{4} + 1$$

Вариант 156

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} + \frac{62}{9}$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} + \frac{22}{9}$$

Вариант 157

$$f(x) = \frac{x^2}{16} + \frac{5x}{8} + \frac{5}{16}$$
$$g(x) = \frac{7x^2}{16} - \frac{x}{8} - \frac{85}{16}$$

Вариант 158

$$f(x) = \frac{3x^2}{32} + \frac{7x}{8} + 6$$
$$g(x) = \frac{11x^2}{32} + \frac{7x}{8} + 2$$

Вариант 159

$$f(x) = \frac{(24 - x)(x + 3)}{18}$$
$$g(x) = \frac{(x + 3)(5x - 8)}{6}$$

Вариант 160

$$f(x) = \frac{(x-2)(x+10)}{16}$$
$$g(x) = \frac{3x^2}{8} - \frac{3x}{4} - 5$$

Вариант 161

$$f(x) = \frac{(x+3)^2}{8}$$
$$g(x) = \frac{(x+3)(3x-7)}{8}$$

Вариант 162

$$f(x) = -\frac{x^2}{4} + x + \frac{9}{4}$$
$$g(x) = \frac{7x^2}{4} + 5x - \frac{15}{4}$$

Вариант 163

$$f(x) = \frac{(x+2)(x+16)}{8}$$
$$g(x) = \frac{11x^2}{8} + \frac{29x}{4} + 4$$

Вариант 164

$$f(x) = -\frac{x^2}{18} + \frac{23x}{18} - \frac{2}{9}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} - \frac{58}{9}$$

Вариант 165

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} + 6$$
$$g(x) = \frac{x(7x+12)}{16}$$

Вариант 166

$$f(x) = \frac{(x-1)(x+15)}{16}$$
$$g(x) = \frac{x^2}{2} - \frac{15}{2}$$

Вариант 167

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{58}{9}$$
$$g(x) = \frac{2(x+1)(x+3)}{3}$$

Вариант 168

$$f(x) = \frac{2x^2}{9} + \frac{4x}{3} + 7$$
$$g(x) = \frac{7x^2}{9} + \frac{4x}{3} + 2$$

Вариант 169

$$f(x) = -\frac{x^2}{4} + x + 12$$
$$g(x) = \frac{7x^2}{4} + 9x + 12$$

Вариант 170

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 6$$
$$g(x) = \frac{15x^2}{8} + \frac{37x}{4} + 6$$

Вариант 171

$$f(x) = \frac{x^2}{9} + \frac{10x}{9} - \frac{20}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} - \frac{68}{9}$$

Вариант 172

$$f(x) = -\frac{x^2}{9} + x + 5$$
$$g(x) = \frac{7x^2}{9} + x - 3$$

Вариант 173

$$f(x) = \frac{3x^2}{32} + \frac{x}{2} + \frac{37}{8}$$
$$g(x) = \frac{(x-2)(15x-2)}{32}$$

Вариант 174

$$f(x) = \frac{x^2}{8} + \frac{x}{2} - \frac{5}{2}$$
$$g(x) = \frac{x^2}{2} - x - 7$$
