Индивидуальное задание.

Построить графики функций $f(x)$ и $g(x)$, уточнить координаты точек пересечения, решая численно соответствующее уравнение. На графике отметить и подписать буквами A_1, A_2, ... точки пересечения графиков, вывести в легенде формулы функций, подписать оси.

Вариант 1

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} + 6$$
$$g(x) = \frac{x\,(13x + 28)}{32}$$

Вариант 2

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

Вариант 3

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

Вариант 4

$$f(x) = -\frac{x^2}{16} + \frac{3x}{4} + 8$$
$$g(x) = \frac{x\,(7x + 12)}{16}$$

Вариант 5

$$f(x) = \frac{x^2}{16} + \frac{5x}{8} + \frac{85}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{5}{8}$$

Вариант 6

$$f(x) = \frac{x^2}{18} + \frac{7x}{6} - 1$$
$$g(x) = \frac{5x^2}{6} + \frac{7x}{6} - 8$$

Вариант 7

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

Вариант 8

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

Вариант 9

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

Вариант 10

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

Вариант 11

$$f(x) = \left(\frac{x}{4} + 1\right)(x + 8)$$
$$g(x) = \left(\frac{x}{4} + 1\right)(7x + 8)$$

Вариант 12

$$f(x) = \frac{x^2}{9} + \frac{10x}{9} + \frac{34}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} - \frac{14}{9}$$

Вариант 13

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

Вариант 14

$$f(x) = \left(\frac{x}{2} + 1\right)(x + 6)$$
$$g(x) = \frac{3x^2}{2} + 8x + 6$$

Вариант 15

$$f(x) = \frac{2\,(x + 1)\,(x + 7)}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} - \frac{34}{9}$$

Вариант 16

$$f(x) = \frac{(18-x)(x+2)}{16}$$
$$g(x) = \frac{(x+2)(5x-18)}{16}$$

Вариант 17

$$f(x) = \frac{(x+4)(x+5)}{6}$$
$$g(x) = \frac{(x+4)(11x-1)}{18}$$

Вариант 18

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

Вариант 19

$$f(x) = \frac{3x^2}{32} + \frac{11x}{16} + \frac{7}{32}$$
$$g(x) = \frac{11x^2}{32} + \frac{3x}{16} - \frac{113}{32}$$

Вариант 20

$$f(x) = \frac{(x+1)(3x+17)}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} - \frac{19}{8}$$

Вариант 21

$$f(x) = -\frac{x^2}{4} + x + \frac{13}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{9x}{2} - 2$$

Вариант 22

$$f(x) = -\frac{x^2}{8} + \frac{5x}{4} + 11$$
$$g(x) = \frac{(x+2)(15x+44)}{8}$$

Вариант 23

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

Вариант 24

$$f(x) = \frac{3x^2}{8} + \frac{5x}{2} + \frac{9}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} - \frac{27}{8}$$

Вариант 25

$$f(x) = -\frac{x^2}{9} + \frac{14x}{9} - \frac{4}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} - \frac{68}{9}$$

Вариант 26

$$f(x) = \frac{x^2}{8} + 2x + \frac{79}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} + \frac{37}{8}$$

Вариант 27

$$f(x) = -\frac{x^2}{4} + x + \frac{37}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{9x}{2} + 4$$

Вариант 28

$$f(x) = \frac{x^2}{9} + \frac{7x}{9} + \frac{37}{9}$$
$$g(x) = \frac{5x^2}{9} - \frac{x}{9} + \frac{5}{9}$$

Вариант 29

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{28}{9}$$
$$g(x) = \frac{13x^2}{18} + \frac{47x}{18} - \frac{28}{9}$$

Вариант 30

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

Вариант 31

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

Вариант 32

$$f(x) = -\frac{x^2}{16} + \frac{5x}{4} + \frac{7}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{7}{2}$$

Вариант 33

$$f(x) = -\frac{x^2}{8} + \frac{5x}{4} + 11$$
$$g(x) = \frac{(x+2)(15x+44)}{8}$$

Вариант 34

$$f(x) = \frac{2x^2}{9} + \frac{4x}{3} + 1$$
$$g(x) = \frac{8x^2}{9} + \frac{4x}{3} - 5$$

Вариант 35

$$f(x) = -\frac{x^2}{4} + x + \frac{37}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{9x}{2} + 4$$

Вариант 36

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

Вариант 37

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

Вариант 38

$$f(x) = -\frac{x^2}{16} + \frac{5x}{4} + \frac{7}{4}$$
$$g(x) = \frac{3x^2}{8} - \frac{x}{2} - \frac{7}{2}$$

Вариант 39

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{92}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{26x}{9} + \frac{28}{9}$$

Вариант 40

$$f(x) = \frac{x^2}{18} + \frac{7x}{6} + 8$$
$$g(x) = \frac{13x^2}{18} + \frac{7x}{6} + 2$$

Вариант 41

$$f(x) = \frac{3x^2}{8} + \frac{7x}{4} - 1$$
$$g(x) = \frac{11x^2}{8} + \frac{7x}{4} - 5$$

Вариант 42

$$f(x) = \frac{(x-1)(x+7)}{8}$$
$$g(x) = \frac{3x^2}{8} + \frac{x}{4} - \frac{37}{8}$$

Вариант 43

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

Вариант 44

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + 5$$
$$g(x) = \frac{7x^2}{4} + \frac{17x}{2} + 5$$

Вариант 45

$$f(x) = \frac{(8-x)(x+1)}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{23x}{9} - \frac{56}{9}$$

Вариант 46

$$f(x) = \frac{x^2}{16} + \frac{5x}{8} + \frac{101}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{13}{8}$$

Вариант 47

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

Вариант 48

$$f(x) = -\frac{x^2}{9} + \frac{7x}{9} + \frac{71}{9}$$
$$g(x) = \frac{5x^2}{9} + \frac{19x}{9} + \frac{23}{9}$$

Вариант 49

$$f(x) = \frac{x^2}{8} + 2x + \frac{63}{8}$$
$$g(x) = \frac{(x+1)(13x+27)}{8}$$

Вариант 50

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + 10$$
$$g(x) = \frac{(x+2)(7x+20)}{4}$$

Вариант 51

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

Вариант 52

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

Вариант 53

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

Вариант 54

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

Вариант 55

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{85}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{26x}{9} + \frac{37}{9}$$

Вариант 56

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} + 4$$
$$g(x) = \frac{15x^2}{32} + \frac{7x}{8} - 3$$

Вариант 57

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

Вариант 58

$$f(x) = -\frac{x^2}{4} + \frac{x}{2} + 9$$
$$g(x) = \frac{7x^2}{4} + \frac{17x}{2} + 9$$

Вариант 59

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

Вариант 60

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

Вариант 61

$$f(x) = -\frac{x^2}{9} + \frac{14x}{9} - \frac{4}{9}$$
$$g(x) = \frac{8x^2}{9} - \frac{4x}{9} - \frac{76}{9}$$

Вариант 62

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

Вариант 63

$$f(x) = \frac{x^2}{9} + \frac{11x}{9} + \frac{1}{9}$$
$$g(x) = \frac{5x^2}{9} + \frac{19x}{9} - \frac{31}{9}$$

Вариант 64

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{76}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{26x}{9} + \frac{28}{9}$$

Вариант 65

$$f(x) = \frac{(22 - x)(x + 2)}{16}$$
$$g(x) = \frac{(x + 2)(7x - 26)}{16}$$

Вариант 66

$$f(x) = \frac{3x^2}{8} + \frac{13x}{4} + 9$$
$$g(x) = \frac{13x^2}{8} + \frac{33x}{4} + 9$$

Вариант 67

$$f(x) = \frac{(14 - x)(x - 2)}{16}$$
$$g(x) = \frac{3x^2}{8} - \frac{3x}{4} - 7$$

Вариант 68

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

Вариант 69

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

Вариант 70

$$f(x) = \frac{x^2}{6} + \frac{5x}{6} + 2$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} - \frac{14}{9}$$

Вариант 71

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

Вариант 72

$$f(x) = \frac{x^2}{8} + 2x + \frac{55}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} + \frac{13}{8}$$

Вариант 73

$$f(x) = \frac{x^2}{9} + \frac{10x}{9} - \frac{2}{9}$$
$$g(x) = \frac{8x^2}{9} - \frac{4x}{9} - \frac{58}{9}$$

Вариант 74

$$f(x) = -\frac{x^2}{32} + \frac{7x}{8} + 1$$
$$g(x) = \frac{11x^2}{32} + \frac{7x}{8} - 5$$

Вариант 75

$$f(x) = \frac{3x^2}{8} + \frac{13x}{4} + 10$$
$$g(x) = \frac{(x+2)(13x+40)}{8}$$

Вариант 76

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} - \frac{28}{9}$$
$$g(x) = \frac{8x^2}{9} - \frac{4x}{9} - \frac{76}{9}$$

Вариант 77

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

Вариант 78

$$f(x) = \frac{(x+4)(x+19)}{18}$$
$$g(x) = \frac{(x+4)(11x-1)}{18}$$

Вариант 79

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{17}{9}$$
$$g(x) = \frac{5x^2}{9} - \frac{x}{9} - \frac{31}{9}$$

Вариант 80

$$f(x) = \frac{x^2}{6} + \frac{3x}{2} + \frac{1}{3}$$
$$g(x) = \frac{5x^2}{6} + \frac{17x}{6} - 5$$

Вариант 81

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

Вариант 82

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

Вариант 83

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{101}{9}$$
$$g(x) = \frac{7x^2}{9} + \frac{26x}{9} + \frac{37}{9}$$

Вариант 84

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

Вариант 85

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

Вариант 86

$$f(x) = \frac{(22 - x)(x - 1)}{18}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} - \frac{67}{9}$$

Вариант 87

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

Вариант 88

$$f(x) = -\frac{x^2}{8} + \frac{5x}{4} + 12$$
$$g(x) = \frac{13x^2}{8} + \frac{33x}{4} + 12$$

Вариант 89

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

Вариант 90

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 11$$
$$g(x) = \frac{11x^2}{8} + \frac{29x}{4} + 11$$

Вариант 91

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{38}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} - \frac{34}{9}$$

Вариант 92

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{53}{9}$$
$$g(x) = \frac{2x^2}{3} - \frac{x}{3} - \frac{1}{3}$$

Вариант 93

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

Вариант 94

$$f(x) = \frac{x^2}{32} + \frac{13x}{16} + \frac{101}{32}$$
$$g(x) = \frac{13x^2}{32} + \frac{x}{16} - \frac{79}{32}$$

Вариант 95

$$f(x) = \frac{x^2}{8} + \frac{7x}{4} + 2$$
$$g(x) = \frac{15x^2}{8} + \frac{7x}{4} - 5$$

Вариант 96

$$f(x) = \frac{x^2}{6} + \frac{5x}{6} + 4$$
$$g(x) = \frac{5x^2}{6} - \frac{x}{2} - \frac{4}{3}$$

Вариант 97

$$f(x) = \frac{x^2}{2} + 2x + 6$$
$$g(x) = \frac{7x^2}{4} + 2x + 1$$

Вариант 98

$$f(x) = \frac{x^2}{9} + \frac{7x}{9} + \frac{55}{9}$$
$$g(x) = \frac{5x^2}{9} - \frac{x}{9} + \frac{23}{9}$$

Вариант 99

$$f(x) = \frac{x^2}{18} + \frac{23x}{18} + \frac{20}{9}$$
$$g(x) = \frac{13x^2}{18} + \frac{47x}{18} - \frac{28}{9}$$

Вариант 100

$$f(x) = -\frac{x^2}{4} + \frac{x}{2} + 10$$
$$g(x) = \frac{(x+2)(7x+20)}{4}$$

Вариант 101

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{49}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} - \frac{7}{9}$$

Вариант 102

$$f(x) = \frac{x^2}{9} + \frac{4x}{3} + 2$$
$$g(x) = \frac{8x^2}{9} + \frac{4x}{3} - 5$$

Вариант 103

$$f(x) = \frac{x^2}{16} + \frac{3x}{4} + \frac{17}{4}$$
$$g(x) = \frac{(x-2)(7x+2)}{16}$$

Вариант 104

$$f(x) = -\frac{x^2}{32} + x + \frac{57}{8}$$
$$g(x) = \frac{11x^2}{32} - \frac{x}{2} + \frac{21}{8}$$

Вариант 105

$$f(x) = -\frac{x^2}{9} + \frac{14x}{9} + \frac{41}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} - \frac{23}{9}$$

Вариант 106

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

Вариант 107

$$f(x) = \frac{x^2}{6} + \frac{3x}{2} + \frac{7}{3}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} - \frac{11}{9}$$

Вариант 108

$$f(x) = -\frac{x^2}{18} + \frac{7x}{6} + 1$$
$$g(x) = \frac{11x^2}{18} + \frac{7x}{6} - 5$$

Вариант 109

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + \frac{41}{4}$$
$$g(x) = \frac{3x^2}{2} + 5x + \frac{13}{2}$$

Вариант 110

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

Вариант 111

$$f(x) = \frac{x^2}{32} + \frac{13x}{16} + \frac{133}{32}$$
$$g(x) = \frac{15x^2}{32} - \frac{x}{16} - \frac{77}{32}$$

Вариант 112

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

Вариант 113

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{97}{16}$$
$$g(x) = \frac{x^2}{2} - \frac{1}{2}$$

Вариант 114

$$f(x) = \frac{3x^2}{32} + \frac{7x}{8} - 1$$
$$g(x) = \frac{15x^2}{32} + \frac{7x}{8} - 7$$

Вариант 115

$$f(x) = -\frac{x^2}{4} + x + \frac{17}{4}$$
$$g(x) = \frac{7x^2}{4} + 5x - \frac{7}{4}$$

Вариант 116

$$f(x) = \frac{x^2}{8} + \frac{3x}{4} - \frac{15}{8}$$
$$g(x) = \frac{7x^2}{16} + \frac{x}{8} - \frac{105}{16}$$

Вариант 117

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{71}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{5x}{9} + \frac{7}{9}$$

Вариант 118

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} + \frac{26}{9}$$
$$g(x) = \frac{8x^2}{9} - \frac{4x}{9} - \frac{22}{9}$$

Вариант 119

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} - \frac{19}{9}$$
$$g(x) = \frac{2x^2}{3} - \frac{17}{3}$$

Вариант 120

$$f(x) = -\frac{x^2}{8} + \frac{7x}{4} + 9$$
$$g(x) = \frac{15x^2}{8} + \frac{7x}{4} + 1$$

Вариант 121

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

Вариант 122

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

Вариант 123

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

Вариант 124

$$f(x) = \frac{x^2}{32} + \frac{3x}{4} + \frac{3}{8}$$
$$g(x) = \frac{13x^2}{32} - \frac{3x}{4} - \frac{33}{8}$$

Вариант 125

$$f(x) = \frac{(x+4)\,(x+24)}{32}$$
$$g(x) = \frac{(x+4)\,(15x-32)}{32}$$

Вариант 126

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

Вариант 127

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

Вариант 128

$$f(x) = -\frac{x^2}{9} + \frac{10x}{9} + \frac{74}{9}$$
$$g(x) = \frac{2\,(x+1)\,(x+3)}{3}$$

Вариант 129

$$f(x) = -\frac{x^2}{16} + \frac{5x}{4} + \frac{15}{4}$$
$$g(x) = \frac{x^2}{2} - x - 3$$

Вариант 130

$$f(x) = \frac{x^2}{8} + \frac{9x}{4} + 5$$
$$g(x) = \frac{15x^2}{8} + \frac{37x}{4} + 5$$

Вариант 131

$$f(x) = \frac{x^2}{9} + \frac{7x}{9} + \frac{28}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{5x}{9} - \frac{20}{9}$$

Вариант 132

$$f(x) = -\frac{x^2}{16} + \frac{9x}{8} + \frac{47}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{x}{4} - \frac{29}{8}$$

Вариант 133

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

Вариант 134

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{1}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{x}{4} - \frac{37}{8}$$

Вариант 135

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

Вариант 136

$$f(x) = \frac{2x^2}{9} + \frac{16x}{9} + \frac{68}{9}$$
$$g(x) = \frac{8x^2}{9} + \frac{28x}{9} + \frac{20}{9}$$

Вариант 137

$$f(x) = \frac{2x^2}{9} + \frac{8x}{9} + \frac{53}{9}$$
$$g(x) = \frac{7x^2}{9} - \frac{2x}{9} + \frac{13}{9}$$

Вариант 138

$$f(x) = \frac{x\,(12 - x)}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{3x}{4} - 6$$

Вариант 139

$$f(x) = \frac{x^2}{6} + \frac{3x}{2} + \frac{13}{3}$$
$$g(x) = \frac{11x^2}{18} + \frac{43x}{18} + \frac{7}{9}$$

Вариант 140

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

Вариант 141

$$f(x) = -\frac{x^2}{4} + x + \frac{37}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{9x}{2} + 4$$

Вариант 142

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

Вариант 143

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} - \frac{1}{9}$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} - \frac{41}{9}$$

Вариант 144

$$f(x) = -\frac{x^2}{18} + \frac{23x}{18} + \frac{52}{9}$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} + \frac{4}{9}$$

Вариант 145

$$f(x) = \frac{x^2}{9} + \frac{14x}{9} + \frac{67}{9}$$
$$g(x) = \frac{2x^2}{3} + \frac{8x}{3} + 3$$

Вариант 146

$$f(x) = \frac{x^2}{4} + \frac{5x}{2} + \frac{41}{4}$$
$$g(x) = \frac{3x^2}{2} + 5x + \frac{13}{2}$$

Вариант 147

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} - 1$$
$$g(x) = \frac{13x^2}{32} + \frac{7x}{8} - 7$$

Вариант 148

$$f(x) = -\frac{x^2}{16} + \frac{9x}{8} + \frac{31}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{x}{4} - \frac{37}{8}$$

Вариант 149

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} - \frac{1}{9}$$
$$g(x) = \frac{13x^2}{18} - \frac{5x}{18} - \frac{49}{9}$$

Вариант 150

$$f(x) = -\frac{x^2}{18} + \frac{19x}{18} + \frac{55}{9}$$
$$g(x) = \frac{13x^2}{18} + \frac{47x}{18} - \frac{1}{9}$$

Вариант 151

$$f(x) = -\frac{x^2}{8} + \frac{5x}{4} + 6$$
$$g(x) = \frac{11x^2}{8} + \frac{29x}{4} + 6$$

Вариант 152

$$f(x) = \frac{x^2}{18} + \frac{19x}{18} - \frac{19}{9}$$
$$g(x) = \frac{11x^2}{18} - \frac{x}{18} - \frac{59}{9}$$

Вариант 153

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

Вариант 154

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

Вариант 155

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

Вариант 156

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} - \frac{31}{16}$$
$$g(x) = \frac{3x^2}{8} + \frac{x}{4} - \frac{53}{8}$$

Вариант 157

$$f(x) = \frac{x^2}{8} + 2x + \frac{79}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} + \frac{37}{8}$$

Вариант 158

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{67}{16}$$
$$g(x) = \frac{5x^2}{16} + \frac{x}{8} - \frac{23}{16}$$

Вариант 159

$$f(x) = \frac{x^2}{16} + \frac{x}{2} + \frac{11}{4}$$
$$g(x) = \frac{(x-2)(5x+2)}{16}$$

Вариант 160

$$f(x) = -\frac{x^2}{16} + \frac{9x}{8} + \frac{79}{16}$$
$$g(x) = \frac{7x^2}{16} + \frac{x}{8} - \frac{41}{16}$$

Вариант 161

$$f(x) = \frac{3x^2}{32} + \frac{x}{2} - \frac{3}{8}$$
$$g(x) = \frac{13x^2}{32} - \frac{3x}{4} - \frac{33}{8}$$

Вариант 162

$$f(x) = \frac{x^2}{8} + \frac{7x}{4} + 5$$
$$g(x) = \frac{15x^2}{8} + \frac{7x}{4} - 2$$

Вариант 163

$$f(x) = \frac{x^2}{9} + \frac{7x}{9} + \frac{28}{9}$$
$$g(x) = \frac{5x^2}{9} - \frac{x}{9} - \frac{4}{9}$$

Вариант 164

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{35}{9}$$
$$g(x) = \frac{2x^2}{3} - \frac{x}{3} - \frac{7}{3}$$

Вариант 165

$$f(x) = \frac{x^2}{32} + \frac{7x}{8} + 4$$
$$g(x) = \frac{13x^2}{32} + \frac{7x}{8} - 2$$

Вариант 166

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

Вариант 167

$$f(x) = \frac{(4-x)(x+2)}{4}$$
$$g(x) = \frac{3x^2}{2} + \frac{15x}{2} + 2$$

Вариант 168

$$f(x) = -\frac{x^2}{16} + \frac{7x}{8} + \frac{19}{16}$$
$$g(x) = \frac{7x^2}{16} - \frac{x}{8} - \frac{101}{16}$$

Вариант 169

$$f(x) = \frac{x^2}{16} + \frac{7x}{8} + \frac{65}{16}$$
$$g(x) = \frac{7x^2}{16} + \frac{x}{8} - \frac{25}{16}$$

Вариант 170

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

Вариант 171

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

Вариант 172

$$f(x) = -\frac{x^2}{9} + \frac{11x}{9} + \frac{62}{9}$$
$$g(x) = \frac{2x^2}{3} - \frac{x}{3} + \frac{2}{3}$$

Вариант 173

$$f(x) = \frac{x^2}{4} + 3x + 13$$
$$g(x) = \frac{7x^2}{4} + 9x + 13$$

Вариант 174

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

Вариант 175

$$f(x) = -\frac{x^2}{8} + \frac{3x}{2} + \frac{61}{8}$$
$$g(x) = \frac{15x^2}{8} + \frac{11x}{2} + \frac{13}{8}$$