

**Индивидуальное задание. Линейные ОДУ второго порядка с постоянными коэффициентами**  
Решить задачу Коши аналитически, методом Эйлера и методом Рунге-Кутты. Построить в одной координатной плоскости графики точного и приближенных решений. Шаг принять равным 0.01

Вариант 1

$$\frac{d}{dx}y(x) = 2\sqrt[3]{x}y(x) + \sqrt[3]{x}, \quad y(0) = 1$$

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Вариант 2

$$\frac{d}{dx}y(x) = 2\sqrt{x}y(x) - 9\sqrt{x}, \quad y(0) = -9$$

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Вариант 3

$$\frac{d}{dx}y(x) = \sqrt[7]{x}y(x) - 6\sqrt[7]{x}, \quad y(0) = -6$$

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Вариант 4

$$\frac{d}{dx}y(x) = -5x^2y(x) + 9x^2, \quad y(0) = -9$$

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Вариант 5

$$\frac{d}{dx}y(x) = -5x^2y(x) + 3x^2, \quad y(0) = -3$$

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Вариант 6

$$\frac{d}{dx}y(x) = 2\sqrt{x}y(x) + 3\sqrt{x}, \quad y(0) = 3$$

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Вариант 7

$$\frac{d}{dx}y(x) = -9x^2y(x) - x^2, \quad y(0) = 1$$

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Вариант 8

$$\frac{d}{dx}y(x) = -8x^5y(x) + 5x^5, \quad y(0) = -5$$

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Вариант 9

$$\frac{d}{dx}y(x) = -6x^7y(x) - 8x^7, \quad y(0) = 4$$

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Вариант 10

$$\frac{d}{dx}y(x) = -2\sqrt[7]{x}y(x) + 6\sqrt[7]{x}, \quad y(0) = -3$$

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Вариант 11

$$\frac{d}{dx}y(x) = -9x^5, \quad y(0) = 0$$

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Вариант 12

$$\frac{d}{dx}y(x) = -4x^5y(x) + x^5, \quad y(0) = -1$$

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Вариант 13

$$\frac{d}{dx}y(x) = -5\sqrt{x}y(x) - 2\sqrt{x}, \quad y(0) = 2$$

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Вариант 14

$$\frac{d}{dx}y(x) = 2\sqrt[3]{x}y(x) - 7\sqrt[3]{x}, \quad y(0) = -7$$

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Вариант 15

$$\frac{d}{dx}y(x) = -4x^7y(x) + 5x^7, \quad y(0) = -5$$

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Вариант 16

$$\frac{d}{dx}y(x) = 6\sqrt{x}, \quad y(0) = 0$$

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Вариант 17

$$\frac{d}{dx}y(x) = x^2y(x) + 4x^2, \quad y(0) = 4$$

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Вариант 18

$$\frac{d}{dx}y(x) = -3x^7y(x) + x^7, \quad y(0) = -1$$

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Вариант 19

$$\frac{d}{dx}y(x) = -3x^2y(x) + x^2, \quad y(0) = -1$$

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Вариант 20

$$\frac{d}{dx}y(x) = 9\sqrt[7]{x}y(x) + 3\sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 21

$$\frac{d}{dx}y(x) = -5x^5y(x) + 4x^5, \quad y(0) = -4$$

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Вариант 22

$$\frac{d}{dx}y(x) = -9x^7y(x) + 2x^7, \quad y(0) = -2$$

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Вариант 23

$$\frac{d}{dx}y(x) = -6\sqrt{x}y(x) - 5\sqrt{x}, \quad y(0) = 5$$

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Вариант 24

$$\frac{d}{dx}y(x) = 4\sqrt[7]{x}y(x) - 9\sqrt[7]{x}, \quad y(0) = -9$$

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Вариант 25

$$\frac{d}{dx}y(x) = 2x^2y(x) + x^2, \quad y(0) = 1$$

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Вариант 26

$$\frac{d}{dx}y(x) = 9x^5y(x) + 6x^5, \quad y(0) = 2$$

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Вариант 27

$$\frac{d}{dx}y(x) = -2x^2y(x) + 9x^2, \quad y(0) = -9$$

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Вариант 28

$$\frac{d}{dx}y(x) = 2x^5y(x) + 5x^5, \quad y(0) = 5$$

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Вариант 29

$$\frac{d}{dx}y(x) = \sqrt{x}y(x) - 7\sqrt{x}, \quad y(0) = -7$$

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Вариант 30

$$\frac{d}{dx}y(x) = 3\sqrt[7]{x}y(x) + 3\sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 31

$$\frac{d}{dx}y(x) = -8\sqrt[7]{x}y(x) - 6\sqrt[7]{x}, \quad y(0) = 3$$

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Вариант 32

$$\frac{d}{dx}y(x) = -8x^7, \quad y(0) = 0$$

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Вариант 33

$$\frac{d}{dx}y(x) = 3\sqrt[3]{x}y(x) + 9\sqrt[3]{x}, \quad y(0) = 3$$

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Вариант 34

$$\frac{d}{dx}y(x) = 4x^7y(x) + 6x^7, \quad y(0) = 3$$

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Вариант 35

$$\frac{d}{dx}y(x) = -6\sqrt[3]{x}y(x) + 9\sqrt[3]{x}, \quad y(0) = -3$$

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Вариант 36

$$\frac{d}{dx}y(x) = 2x^2y(x) + x^2, \quad y(0) = 1$$

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Вариант 37

$$\frac{d}{dx}y(x) = 7\sqrt[7]{x}y(x) + 3\sqrt[7]{x}, \quad y(0) = 3$$

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Вариант 38

$$\frac{d}{dx}y(x) = -2\sqrt[3]{x}y(x) - 7\sqrt[3]{x}, \quad y(0) = 7$$

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Вариант 39

$$\frac{d}{dx}y(x) = -4x^2y(x) - 5x^2, \quad y(0) = 5$$

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Вариант 40

$$\frac{d}{dx}y(x) = -6\sqrt{x}, \quad y(0) = 0$$

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Вариант 41

$$\frac{d}{dx}y(x) = -x^2y(x) + 5x^2, \quad y(0) = -5$$

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Вариант 42

$$\frac{d}{dx}y(x) = -8\sqrt{x}y(x) - 2\sqrt{x}, \quad y(0) = 1$$

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Вариант 43

$$\frac{d}{dx}y(x) = -7x^2y(x) - 8x^2, \quad y(0) = 8$$

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Вариант 44

$$\frac{d}{dx}y(x) = -4\sqrt[7]{x}y(x) + 3\sqrt[7]{x}, \quad y(0) = -3$$

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Вариант 45

$$\frac{d}{dx}y(x) = 5\sqrt[3]{x}y(x) + 3\sqrt[3]{x}, \quad y(0) = 3$$

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Вариант 46

$$\frac{d}{dx}y(x) = -5\sqrt[3]{x}y(x) - 6\sqrt[3]{x}, \quad y(0) = 6$$

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Вариант 47

$$\frac{d}{dx}y(x) = 8x^5y(x) + 3x^5, \quad y(0) = 3$$

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Вариант 48

$$\frac{d}{dx}y(x) = -7x^5y(x) + 4x^5, \quad y(0) = -4$$

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Вариант 49

$$\frac{d}{dx}y(x) = 5\sqrt[3]{x}y(x) + 4\sqrt[3]{x}, \quad y(0) = 4$$

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Вариант 50

$$\frac{d}{dx}y(x) = 6x^7y(x) - 5x^7, \quad y(0) = -5$$

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Вариант 51

$$\frac{d}{dx}y(x) = 5\sqrt[7]{x}y(x) + 2\sqrt[7]{x}, \quad y(0) = 2$$

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Вариант 52

$$\frac{d}{dx}y(x) = 2x^5y(x) + 4x^5, \quad y(0) = 2$$

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Вариант 53

$$\frac{d}{dx}y(x) = -\sqrt[7]{x}y(x) - \sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 54

$$\frac{d}{dx}y(x) = 2\sqrt[3]{x}y(x) - 6\sqrt[3]{x}, \quad y(0) = -3$$

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Вариант 55

$$\frac{d}{dx}y(x) = -3x^2y(x) - 7x^2, \quad y(0) = 7$$

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Вариант 56

$$\frac{d}{dx}y(x) = 9\sqrt[3]{x}y(x) - 9\sqrt[3]{x}, \quad y(0) = -1$$

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Вариант 57

$$\frac{d}{dx}y(x) = 4\sqrt[7]{x}y(x) + 9\sqrt[7]{x}, \quad y(0) = 9$$

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Вариант 58

$$\frac{d}{dx}y(x) = -x^5y(x) + 8x^5, \quad y(0) = -8$$

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Вариант 59

$$\frac{d}{dx}y(x) = -6x^7y(x) + 9x^7, \quad y(0) = -3$$

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Вариант 60

$$\frac{d}{dx}y(x) = -8\sqrt[7]{x}y(x) - 9\sqrt[7]{x}, \quad y(0) = 9$$

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Вариант 61

$$\frac{d}{dx}y(x) = -2\sqrt[3]{x}y(x) - 2\sqrt[3]{x}, \quad y(0) = 1$$

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Вариант 62

$$\frac{d}{dx}y(x) = -2x^2y(x) + 6x^2, \quad y(0) = -3$$

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Вариант 63

$$\frac{d}{dx}y(x) = 9x^5y(x) + 4x^5, \quad y(0) = 4$$

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Вариант 64

$$\frac{d}{dx}y(x) = 9x^5y(x) + 7x^5, \quad y(0) = 7$$

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Вариант 65

$$\frac{d}{dx}y(x) = 9\sqrt[3]{x}y(x) - 8\sqrt[3]{x}, \quad y(0) = -8$$

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Вариант 66

$$\frac{d}{dx}y(x) = -x^7y(x) + 9x^7, \quad y(0) = -9$$

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Вариант 67

$$\frac{d}{dx}y(x) = 5\sqrt[3]{x}y(x) - 4\sqrt[3]{x}, \quad y(0) = -4$$

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Вариант 68

$$\frac{d}{dx}y(x) = 6\sqrt{x}y(x) - 3\sqrt{x}, \quad y(0) = -1$$

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Вариант 69

$$\frac{d}{dx}y(x) = 9\sqrt[7]{x}y(x) + 4\sqrt[7]{x}, \quad y(0) = 4$$

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Вариант 70

$$\frac{d}{dx}y(x) = -6\sqrt{x}, \quad y(0) = 0$$

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Вариант 71

$$\frac{d}{dx}y(x) = -6x^7y(x) + 9x^7, \quad y(0) = -3$$

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Вариант 72

$$\frac{d}{dx}y(x) = -3\sqrt[3]{x}y(x) + \sqrt[3]{x}, \quad y(0) = -1$$

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Вариант 73

$$\frac{d}{dx}y(x) = 7\sqrt[7]{x}y(x) + 8\sqrt[7]{x}, \quad y(0) = 8$$

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Вариант 74

$$\frac{d}{dx}y(x) = -3\sqrt[3]{x}y(x) + 6\sqrt[3]{x}, \quad y(0) = -2$$

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Вариант 75

$$\frac{d}{dx}y(x) = -5x^2y(x) + 6x^2, \quad y(0) = -6$$

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Вариант 76

$$\frac{d}{dx}y(x) = 5\sqrt[3]{x}y(x) - 3\sqrt[3]{x}, \quad y(0) = -3$$

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Вариант 77

$$\frac{d}{dx}y(x) = -9\sqrt{x}y(x) + \sqrt{x}, \quad y(0) = -1$$

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Вариант 78

$$\frac{d}{dx}y(x) = 5\sqrt[7]{x}y(x) + 7\sqrt[7]{x}, \quad y(0) = 7$$

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Вариант 79

$$\frac{d}{dx}y(x) = \sqrt[7]{x}y(x) + 9\sqrt[7]{x}, \quad y(0) = 9$$

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Вариант 80

$$\frac{d}{dx}y(x) = 4x^7y(x) - 6x^7, \quad y(0) = -3$$

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Вариант 81

$$\frac{d}{dx}y(x) = 9\sqrt[7]{x}y(x) - 2\sqrt[7]{x}, \quad y(0) = -2$$

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Вариант 82

$$\frac{d}{dx}y(x) = 2\sqrt[7]{x}y(x) + 8\sqrt[7]{x}, \quad y(0) = 4$$

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Вариант 83

$$\frac{d}{dx}y(x) = -9x^5y(x) - 3x^5, \quad y(0) = 1$$

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Вариант 84

$$\frac{d}{dx}y(x) = -5x^2y(x) - 6x^2, \quad y(0) = 6$$

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Вариант 85

$$\frac{d}{dx}y(x) = 2x^7y(x) - 5x^7, \quad y(0) = -5$$

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Вариант 86

$$\frac{d}{dx}y(x) = 5x^7y(x) + 8x^7, \quad y(0) = 8$$

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Вариант 87

$$\frac{d}{dx}y(x) = 3\sqrt[7]{x}y(x) + 5\sqrt[7]{x}, \quad y(0) = 5$$

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Вариант 88

$$\frac{d}{dx}y(x) = 7x^7y(x) - x^7, \quad y(0) = -1$$

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Вариант 89

$$\frac{d}{dx}y(x) = 4\sqrt{x}y(x) + 8\sqrt{x}, \quad y(0) = 2$$

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Вариант 90

$$\frac{d}{dx}y(x) = -4\sqrt[7]{x}y(x) + 6\sqrt[7]{x}, \quad y(0) = -3$$

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Вариант 91

$$\frac{d}{dx}y(x) = 9\sqrt{x}y(x) - 6\sqrt{x}, \quad y(0) = -2$$

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Вариант 92

$$\frac{d}{dx}y(x) = x^7y(x) - 9x^7, \quad y(0) = -9$$

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Вариант 93

$$\frac{d}{dx}y(x) = 2\sqrt{x}y(x) - 2\sqrt{x}, \quad y(0) = -1$$



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Вариант 94

$$\frac{d}{dx}y(x) = -6\sqrt[3]{x}y(x) - 4\sqrt[3]{x}, \quad y(0) = 2$$

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Вариант 95

$$\frac{d}{dx}y(x) = -9\sqrt[7]{x}y(x) - 3\sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 96

$$\frac{d}{dx}y(x) = 8\sqrt[7]{x}y(x) - 6\sqrt[7]{x}, \quad y(0) = -3$$

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Вариант 97

$$\frac{d}{dx}y(x) = x^2y(x) + 7x^2, \quad y(0) = 7$$

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Вариант 98

$$\frac{d}{dx}y(x) = -x^5y(x) - 4x^5, \quad y(0) = 4$$

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Вариант 99

$$\frac{d}{dx}y(x) = 6x^2y(x) + 5x^2, \quad y(0) = 5$$

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Вариант 100

$$\frac{d}{dx}y(x) = 4x^5y(x) + 5x^5, \quad y(0) = 5$$

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Вариант 101

$$\frac{d}{dx}y(x) = -2\sqrt[3]{x}y(x) + \sqrt[3]{x}, \quad y(0) = -1$$

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Вариант 102

$$\frac{d}{dx}y(x) = -x^7y(x) - 3x^7, \quad y(0) = 3$$

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Вариант 103

$$\frac{d}{dx}y(x) = -9x^2y(x) - 2x^2, \quad y(0) = 2$$

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Вариант 104

$$\frac{d}{dx}y(x) = -2x^5y(x) - 5x^5, \quad y(0) = 5$$

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Вариант 105

$$\frac{d}{dx}y(x) = -6\sqrt[3]{x}y(x) - \sqrt[3]{x}, \quad y(0) = 1$$

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Вариант 106

$$\frac{d}{dx}y(x) = 4x^7y(x) + 8x^7, \quad y(0) = 2$$

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Вариант 107

$$\frac{d}{dx}y(x) = 9x^2, \quad y(0) = 0$$

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Вариант 108

$$\frac{d}{dx}y(x) = 5\sqrt{x}y(x) + 4\sqrt{x}, \quad y(0) = 4$$

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Вариант 109

$$\frac{d}{dx}y(x) = -4x^7y(x) - x^7, \quad y(0) = 1$$

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Вариант 110

$$\frac{d}{dx}y(x) = -9\sqrt[3]{x}y(x) - 3\sqrt[3]{x}, \quad y(0) = 1$$

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Вариант 111

$$\frac{d}{dx}y(x) = -8x^2y(x) + 3x^2, \quad y(0) = -3$$

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Вариант 112

$$\frac{d}{dx}y(x) = -3x^7y(x) + 5x^7, \quad y(0) = -5$$

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Вариант 113

$$\frac{d}{dx}y(x) = -8x^7y(x) + x^7, \quad y(0) = -1$$

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Вариант 114

$$\frac{d}{dx}y(x) = -7\sqrt[7]{x}y(x) - 8\sqrt[7]{x}, \quad y(0) = 8$$

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Вариант 115

$$\frac{d}{dx}y(x) = 5\sqrt[7]{x}, \quad y(0) = 0$$

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Вариант 116

$$\frac{d}{dx}y(x) = 5x^7y(x) + 9x^7, \quad y(0) = 9$$

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Вариант 117

$$\frac{d}{dx}y(x) = 6\sqrt{x}y(x) + 3\sqrt{x}, \quad y(0) = 1$$

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Вариант 118

$$\frac{d}{dx}y(x) = -3\sqrt[3]{x}y(x) - 5\sqrt[3]{x}, \quad y(0) = 5$$

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Вариант 119

$$\frac{d}{dx}y(x) = -x^7y(x) + 9x^7, \quad y(0) = -9$$

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Вариант 120

$$\frac{d}{dx}y(x) = -5x^5y(x) - x^5, \quad y(0) = 1$$

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Вариант 121

$$\frac{d}{dx}y(x) = -6\sqrt[7]{x}y(x) - \sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 122

$$\frac{d}{dx}y(x) = 7\sqrt[3]{x}y(x) + 7\sqrt[3]{x}, \quad y(0) = 1$$

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Вариант 123

$$\frac{d}{dx}y(x) = -\sqrt[3]{x}y(x) + 9\sqrt[3]{x}, \quad y(0) = -9$$

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Вариант 124

$$\frac{d}{dx}y(x) = -6\sqrt{x}y(x) + 8\sqrt{x}, \quad y(0) = -4$$

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Вариант 125

$$\frac{d}{dx}y(x) = -7\sqrt[3]{x}y(x) + 2\sqrt[3]{x}, \quad y(0) = -2$$

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Вариант 126

$$\frac{d}{dx}y(x) = 4\sqrt{x}, \quad y(0) = 0$$

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Вариант 127

$$\frac{d}{dx}y(x) = -\sqrt{x}y(x) - 7\sqrt{x}, \quad y(0) = 7$$

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Вариант 128

$$\frac{d}{dx}y(x) = 3x^2y(x) - 9x^2, \quad y(0) = -3$$

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Вариант 129

$$\frac{d}{dx}y(x) = \sqrt{x}y(x) + 2\sqrt{x}, \quad y(0) = 2$$

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Вариант 130

$$\frac{d}{dx}y(x) = 4x^5y(x) + 5x^5, \quad y(0) = 5$$

---

Вариант 131

$$\frac{d}{dx}y(x) = -4x^5y(x) + 9x^5, \quad y(0) = -9$$

---

Вариант 132

$$\frac{d}{dx}y(x) = -2x^2y(x) + 2x^2, \quad y(0) = -1$$

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Вариант 133

$$\frac{d}{dx}y(x) = -3x^2y(x) - 8x^2, \quad y(0) = 8$$

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Вариант 134

$$\frac{d}{dx}y(x) = \sqrt[7]{x}y(x) + 6\sqrt[7]{x}, \quad y(0) = 6$$

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Вариант 135

$$\frac{d}{dx}y(x) = -3\sqrt[7]{x}y(x) - 5\sqrt[7]{x}, \quad y(0) = 5$$

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Вариант 136

$$\frac{d}{dx}y(x) = -2\sqrt{x}y(x) + 6\sqrt{x}, \quad y(0) = -3$$

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Вариант 137

$$\frac{d}{dx}y(x) = 7x^7y(x) - 9x^7, \quad y(0) = -9$$

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Вариант 138

$$\frac{d}{dx}y(x) = -9x^7y(x) - 4x^7, \quad y(0) = 4$$

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Вариант 139

$$\frac{d}{dx}y(x) = -2x^5y(x) - 6x^5, \quad y(0) = 3$$

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Вариант 140

$$\frac{d}{dx}y(x) = -\sqrt[3]{x}y(x) - 2\sqrt[3]{x}, \quad y(0) = 2$$

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Вариант 141

$$\frac{d}{dx}y(x) = -2\sqrt[3]{x}y(x) - 4\sqrt[3]{x}, \quad y(0) = 2$$

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Вариант 142

$$\frac{d}{dx}y(x) = \sqrt[7]{x}y(x) + 6\sqrt[7]{x}, \quad y(0) = 6$$

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Вариант 143

$$\frac{d}{dx}y(x) = -4\sqrt[7]{x}y(x) - 9\sqrt[7]{x}, \quad y(0) = 9$$

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Вариант 144

$$\frac{d}{dx}y(x) = -7\sqrt[7]{x}y(x) - 7\sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 145

$$\frac{d}{dx}y(x) = -9x^7y(x) - 9x^7, \quad y(0) = 1$$

---

Вариант 146

$$\frac{d}{dx}y(x) = -3x^7y(x) + 6x^7, \quad y(0) = -2$$

---

Вариант 147

$$\frac{d}{dx}y(x) = -7\sqrt{x}y(x) - 7\sqrt{x}, \quad y(0) = 1$$

---

Вариант 148

$$\frac{d}{dx}y(x) = -\sqrt[3]{x}y(x) - 2\sqrt[3]{x}, \quad y(0) = 2$$

---

Вариант 149

$$\frac{d}{dx}y(x) = 7x^7y(x) - 5x^7, \quad y(0) = -5$$

---

Вариант 150

$$\frac{d}{dx}y(x) = 3\sqrt{x}y(x) - 6\sqrt{x}, \quad y(0) = -2$$

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Вариант 151

$$\frac{d}{dx}y(x) = -9x^2y(x) - 4x^2, \quad y(0) = 4$$

---

Вариант 152

$$\frac{d}{dx}y(x) = -6\sqrt[3]{x}y(x) + 4\sqrt[3]{x}, \quad y(0) = -2$$

---

Вариант 153

$$\frac{d}{dx}y(x) = -\sqrt{x}y(x) - 3\sqrt{x}, \quad y(0) = 3$$

---

Вариант 154

$$\frac{d}{dx}y(x) = 6x^2y(x) - 5x^2, \quad y(0) = -5$$

---

Вариант 155

$$\frac{d}{dx}y(x) = 2\sqrt{x}y(x) - 3\sqrt{x}, \quad y(0) = -3$$

---

Вариант 156

$$\frac{d}{dx}y(x) = -4x^7y(x) - 3x^7, \quad y(0) = 3$$

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Вариант 157

$$\frac{d}{dx}y(x) = 7x^2, \quad y(0) = 0$$

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Вариант 158

$$\frac{d}{dx}y(x) = -5x^7y(x) - 5x^7, \quad y(0) = 1$$

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Вариант 159

$$\frac{d}{dx}y(x) = 3x^2y(x) - 7x^2, \quad y(0) = -7$$

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Вариант 160

$$\frac{d}{dx}y(x) = 7x^7y(x) + 6x^7, \quad y(0) = 6$$

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Вариант 161

$$\frac{d}{dx}y(x) = -7\sqrt[7]{x}y(x) - \sqrt[7]{x}, \quad y(0) = 1$$

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Вариант 162

$$\frac{d}{dx}y(x) = -2\sqrt[7]{x}y(x) + \sqrt[7]{x}, \quad y(0) = -1$$

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Вариант 163

$$\frac{d}{dx}y(x) = 3x^7y(x) + 2x^7, \quad y(0) = 2$$

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Вариант 164

$$\frac{d}{dx}y(x) = -4\sqrt[3]{x}y(x) - 7\sqrt[3]{x}, \quad y(0) = 7$$

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Вариант 165

$$\frac{d}{dx}y(x) = -3x^7y(x) - 2x^7, \quad y(0) = 2$$

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Вариант 166

$$\frac{d}{dx}y(x) = -9x^5y(x) + 5x^5, \quad y(0) = -5$$

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Вариант 167

$$\frac{d}{dx}y(x) = \sqrt[7]{x}y(x) - \sqrt[7]{x}, \quad y(0) = -1$$

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Вариант 168

$$\frac{d}{dx}y(x) = -5\sqrt[3]{x}y(x) + \sqrt[3]{x}, \quad y(0) = -1$$

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Вариант 169

$$\frac{d}{dx}y(x) = 8x^2y(x) - 5x^2, \quad y(0) = -5$$

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Вариант 170

$$\frac{d}{dx}y(x) = -8\sqrt[3]{x}y(x) + 3\sqrt[3]{x}, \quad y(0) = -3$$

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Вариант 171

$$\frac{d}{dx}y(x) = -\sqrt[3]{x}y(x) - 6\sqrt[3]{x}, \quad y(0) = 6$$

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Вариант 172

$$\frac{d}{dx}y(x) = -6x^7y(x) + 2x^7, \quad y(0) = -1$$

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Вариант 173

$$\frac{d}{dx}y(x) = 4x^7y(x) + 5x^7, \quad y(0) = 5$$

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Вариант 174

$$\frac{d}{dx}y(x) = -5x^2y(x) - 5x^2, \quad y(0) = 1$$

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Вариант 175

$$\frac{d}{dx}y(x) = 4x^2y(x) + x^2, \quad y(0) = 1$$

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