

### *Индивидуальные задания ч1*

Составить программу для табулирования функции  $y(x)$ , вывести на экран значения  $x$  и  $y(x)$

1) $y = 10^{-2}bc/x + \cos\sqrt{a^3x}$ , $x_0 = -1.5; x_k = 3.5; dx = 0.5;$ $a = -1.25; b = -1.5; c = 0.75;$	2) $y = 1.2(a-b)^3e^{x^2} + x$ , $x_0 = -0.75; x_k = -1.5; dx = -0.05;$ $a = 1.5; b = 1.2;$
3) $y = 10^{-1}ax^3\lg(a-bx)$ , $x_0 = -0.5; x_k = 2.5; dx = 0.05;$ $a = 10.2; b = 1.25;$	4) $y = ax^3 + \cos^2(x^3 - b)$ , $x_0 = 5.3; x_k = 10.3; dx = 0.25;$ $a = 1.35; b = -6.25;$
5) $y = x^4 + \cos(2 + x^3 - d)$ , $x_0 = 4.6; x_k = 5.8; dx = 0.2;$ $d = 1.3;$	6) $y = x^2 + \lg(5x + b/x)$ , $x_0 = -1.5; x_k = -2.5; dx = -0.5;$ $b = -0.8;$
7) $y = 9(x + 15\sqrt{x^3 + b^3})$ , $x_0 = -2.4; x_k = 1; dx = 0.2;$ $b = 2.5;$	8) $y = 9x^4 + \sin(57.2 + x)$ , $x_0 = -0.75; x_k = -2.05; dx = -0.2;$
9) $y = 0.0025bx^3 + \sqrt{x + e^{0.82}}$ , $x_0 = -1; x_k = 4; dx = 0.5;$ $b = 2.3;$	10) $y = x \cdot \sin(\sqrt{x + b - 0.0084})$ , $x_0 = -2.05; x_k = -3.05; dx = -0.2;$ $b = 3.4;$
11) $y = x + \sqrt{ x^3 + a - be^x }$ , $x_0 = -4; x_k = -6.2; dx = -0.2;$ $a = 0.1;$	12) $y = 9(x^3 + b^3)\operatorname{tg}x$ , $x_0 = 1; x_k = 2.2; dx = 0.2;$ $b = 3.2;$
13) $y =  x - b ^{1/2} /  b^3 - x^3 ^{3/2} + \ln x - b $ , $x_0 = -0.73; x_k = -1.73; dx = -0.1;$ $b = -2;$	14) $y = (x^{5/2} - b)\ln(x^2 + 12.7)$ , $x_0 = 0.25; x_k = 5.2; dx = 0.3;$ $b = 0.8;$

15) $y = 10^{-3} x ^{5/2} + \ln x+b $ , $x_0 = 1.75; x_k = -2.5; dx = -0.25$ ; $b = 35.4$ ;	16) $y = 15.28 x ^{-3/2} + \cos(\ln x  + b)$ , $x_0 = 1.23; x_k = -2.4; dx = -0.3$ ; $b = 12.6$ ;
17) $y = 0.00084(\ln x ^{5/4} + b)/(x^2 + 3.82)$ , $x_0 = -2.35; x_k = -2; dx = 0.05$ ; $b = 74.2$ ;	18) $y = 0.8 \cdot 10^{-5}(x^3 + b^3)^{7/6}$ , $x_0 = -0.05; x_k = 0.15; dx = 0.01$ ; $b = 6.74$ ;
19) $y = (\ln(\sin(x^3 + 0.0025)))^{3/2} + 0.8 \cdot 10^{-2}$ , $x_0 = 0.12; x_k = 0.64; dx = 0.2$ ;	20) $y = a + x^{2/3} \cos(x + e^x)$ , $x_0 = 5.62; x_k = 15.62; dx = 0.5$ ; $a = 0.41$ ;
21) $y = x^{b^b} + \cos(x^{3/2} + b^{3/4})$ , $x_0 = 13.7; x_k = 19.1; dx = 0.4$ ; $b = 2$ ;	22) $y = 10^{-2}(a + bx) - e^{x^3+b}$ , $x_0 = -3.4; x_k = -1.4; dx = 0.1$ ; $a = 5; b = 4$ ;
23) $y = ax^3 + b^{5/4}xe^{-x}$ , $x_0 = 2.51; x_k = 10.59; dx = 1.01$ ; $a = 4; b = 2$ ;	24) $y = a x ^{5/2} + \cos(\sqrt{e^x})$ , $x_0 = -0.31; x_k = 0.61; dx = 0.3$ ; $a = 8$ ;
25) $y = 3.1\sqrt{ax^2} -  a+b x$ , $x_0 = -2.35; x_k = -5.55; dx = -0.05$ ; $a = 2; b = -5$ ;	