Лабораторная работа № 3. Индивидуальные задания.

Детерминированные вычислительные процессы с управлением по аргументу. Численное интегрирование.

№	Интеграл	№	Интеграл
1	1) $\int_{0,6}^{1,4} \frac{\sqrt{x^2+5}\,dx}{2x+\sqrt{x^2+0,5}}$;	36	$\int_{0,4}^{1,2} \frac{\cos(0,4x+0,6)\,dx}{0,8+\sin^2(x+0,5)}$.
2	1) $\int_{0,4}^{1,2} \frac{\sqrt{0,5x+2}\,dx}{\sqrt{2x^2+1}+0,8}$;	37	$\int_{0,4}^{1,8} \frac{\sin(0,2x^2+0,7)\,dx}{1,4+\cos(0,5x+0,2)}$.
3	1) $\int_{0,8}^{1,8} \frac{\sqrt{0,8x^2+1}\,dx}{x+\sqrt{1,5x^2+2}}$;	38	$\int_{0,2}^{1} \frac{\cos(0,3x+0,8)\,dx}{0,9+2\sin(0,4x+0,3)}$.
4	1) $\int_{1,0}^{2,2} \frac{\sqrt{1,5x+0,6}\,dx}{1,6+\sqrt{0,8x^2+2}}$;	39	$\int_{0,3}^{1,1} \frac{\sin(0,8x+0,3)\,dx}{1,2+\cos(x^2+0,4)}$.
5	1) $\int_{1,2}^{2,0} \frac{\sqrt{2x^2+1,6}\,dx}{2x+\sqrt{0,5x^2+3}}$;	40	$\int_{0,5}^{1,3} \frac{\cos(x^2+0,2)\,dx}{1,3+\sin(2x+0,4)}$.
6	1) $\int_{1,3}^{2,5} \frac{\sqrt{x^2+0,6}\,dx}{1,4+\sqrt{0,8x^2+1,3}}$;	41	$\int_{1,3}^{2,7} \frac{\sqrt{1,3x^2+0,8}\,dx}{1,7x+\sqrt{2x+0,5}}$;
7	$\int_{1,2}^{2,6} \frac{\sqrt{0,4x+1,7}\,dx}{1,5x+\sqrt{x^2+1,3}}$;	42	$\int_{0,6}^{1,4} \frac{\sqrt{x^2+0,5}\,dx}{2x+\sqrt{x^2+2,5}}$;
8	1) $\int_{0,8}^{1,6} \frac{\sqrt{0,3x^2+2,3}\,dx}{1,8+\sqrt{2x+1,6}}$;	43	$\int_{0,4}^{1,2} \frac{\sqrt{2x^2+1}\,dx}{0,8x+\sqrt{0,5x+2}}$;
9	$\int_{0,2}^{0,8} \frac{\sin(2x+0,5)\,dx}{2+\cos(x^2+1)}$.	44	$\int_{0,8}^{1,8} \frac{\sqrt{1,5x^2+2}\,dx}{x+\sqrt{0,8x^2+1}}$;
10	2) $\int_{0,3}^{0,9} \frac{\cos(0,8x+1,2)\,dx}{1,5+\sin(x^2+0,6)}$.	45	$\int_{1}^{2,2} \frac{\sqrt{0,8x^2+2}\,dx}{1,6+\sqrt{1,5x+0,6}}$;
11	2) $\int_{0,4}^{1,0} \frac{\sin(x+1,4)\,dx}{0,8+\cos(2x^2+0,5)}$.	46	$\int_{1,2}^{2,0} \frac{\sqrt{0,5x^2+3}\,dx}{2x+\sqrt{2x^2+1,6}}$;
12	$\int_{0,6}^{1,0} \frac{\cos(0,6x^2+0,4)\,dx}{1,4+\sin^2(x+0,7)}$.	47	$\int_{1,3}^{2,5} \frac{\sqrt{0,8x^2+1,3}\,dx}{1,4+\sqrt{x^2+0,6}}$;

13	$\int_{0,5}^{1,3} \frac{\sin(0,5x+0,4)\,dx}{1,2+\cos(x^2+0,4)}$.	48	$\int_{1,2}^{2,6} \frac{\sqrt{x^2+1,3}\,dx}{1,5x+\sqrt{0,4x+1,7}}$;
14	$\int_{0,4}^{0,8} \frac{\cos(x^2+0,6)\,dx}{0,7+\sin(0,8x+1)}$.	49	$\int_{0,8}^{1,6} \frac{\sqrt{2x+1,6}\,dx}{1,8+\sqrt{0,3x^2+2,3}}$;
15	$\int_{0,3}^{1,5} \frac{\sin(0,3x+1,2)\,dx}{1,3+\cos^2(0,5x+1)}$.	50	$\int_{1,2}^{2} \frac{\sqrt{0,7x^2+1}\,dx}{2,1x+\sqrt{0,6x+1,7}}$;
16	$\int_{0,5}^{1,8} \frac{\cos(x^2+0,6)\,dx}{1,2+\sin(0,7x+0,2)}$.	51	$I=\int_{1,5}^{2,3} \frac{\sqrt{0,3x+1,2}\,dx}{1,6x+\sqrt{x^2+0,5}}$;
17	$\int_{1,2}^{2} \frac{\sqrt{0,6x+1,7}\,dx}{2,1x+\sqrt{0,7x^2+1}}$;	52	$\int_{0,4}^{1,2} \frac{\sin(0,6x+0,5)\,dx}{1,5+\cos(x^2+0,4)}$.
18	$\int_{0,8}^{2,4} \frac{\sqrt{0,4x^2+1,5}\,dx}{2,5+\sqrt{2x+0,8}}$;	53	$\int_{0,2}^{0,8} \frac{\cos(x^2+1)\,dx}{2+\sin(2x+0,5)}$.
19	$\int_{1,2}^{2,8} \frac{\sqrt{1,2x+0,7}\,dx}{1,4x+\sqrt{1,3x^2+0,5}}$;	54	$\int_{0,3}^{0,9} \frac{\sin(x^2+0,6)\,dx}{1,5+\cos(0,8x+1,2)}$.
20	$\int_{0,6}^{2,4} \frac{\sqrt{1,1x^2+0,9}\,dx}{1,6+\sqrt{0,8x^2+1,4}}$;	55	$\int_{0,4}^{1} \frac{\cos(2x^2+0,5)\,dx}{0,8+\sin(x+1,4)}$.
21	$\int_{0,7}^{2,1} \frac{\sqrt{0,6x+1,5}\,dx}{2x+\sqrt{x^2+3}}$;	56	$\int_{0,6}^{1} \frac{\sin(x+0,7)\,dx}{1,4+\cos(0,6x+0,4)}$.
22	$\int_{0,8}^{2,4} \frac{\sqrt{1,5x+2,3}\,dx}{3+\sqrt{0,3x+1}}$;	57	$\int_{0,5}^{1,3} \frac{\cos(x^2+0,4)\,dx}{1,2+\sin(0,5x+0,4)}$.
23	$\int_{1,9}^{2,6} \frac{\sqrt{2x+1,7}\,dx}{2,4+\sqrt{1,2x^2+0,6}}$;	58	$\int_{0,4}^{0,8} \frac{\sin(0,8x+1)\,dx}{0,7+\cos(x^2+0,6)}$.
24	$\int_{0,5}^{1,9} \frac{\sqrt{0,7x^2+2,3}\,dx}{3,2+\sqrt{0,8x+1,4}}$;	59	$\int_{0,3}^{1,5} \frac{\cos(0,5x^2+1)\,dx}{1,3+\sin(0,3x+1,2)}$.
25	$\int_{1}^{2,6} \frac{\sqrt{0,4x+3}\,dx}{0,7x+\sqrt{2x^2+0,5}}$;	60	$\int_{0,5}^{1,1} \frac{\cos(0,7x+0,2)\,dx}{1,2+\sin(x^2+0,6)}$.
26	$\int_{0,7}^{2,1} \frac{\sqrt{1,7x^2+0,5}\,dx}{1,4+\sqrt{1,2x+1,3}}$;	61	$\int_{0,4}^{1,2} \frac{\cos(0,4x^2+1)\,dx}{2,3+\sin(1,5x+0,3)}$.
27	$\int_{0,6}^{2,2} \frac{\sqrt{1,5x+1}\,dx}{1,2x+\sqrt{x^2+1,8}}$;	62	$I=\int_{0,4}^{1,2} \frac{\sin(0,6x+0,3)\,dx}{1,7+\cos(x^2+1,2)}$

28	$\int_{1,2}^{3} \frac{\sqrt{2x^2+0,7}\,dx}{1,5+\sqrt{0,8x+1}};$	63	$\int_{0,8}^{1,6} \frac{dx}{\sqrt{2x^2+1}};$
29	$\int_{0,4}^{1,2} \frac{\sin(1,5x+0,3)\,dx}{2,3+\cos(0,4x^2+1)}.$	64	$\int_{1,2}^{2,7} \frac{dx}{\sqrt{x^2+3,2}};$
30	$\int_{0,4}^{1,2} \frac{\cos(x^2+0,8)\,dx}{1,5+\sin(0,6x+0,5)}.$	65	$\int_{1}^{2} \frac{dx}{\sqrt{2x^2+1,3}};$
31	2) $\int_{0,5}^{1,3} \frac{\sin(0,7x+0,4)\,dx}{2,2+\cos(0,3x^2+0,7)}.$	66	$\int_{0,2}^{1,2} \frac{dx}{\sqrt{x^2+1}};$
32	2) $\int_{0,4}^{1,4} \frac{\cos(0,8x^2+1)\,dx}{1,4+\sin(0,3x+0,5)}.$	67	$\int_{0,8}^{1,4} \frac{dx}{\sqrt{2x^2+3}};$
33	$\int_{0,2}^{1} \frac{\sin(0,8x^2+0,3)\,dx}{0,7+\cos(1,2x+0,3)}.$	68	$\int_{0,4}^{1,2} \frac{dx}{\sqrt{2+0,5x^2}};$
34	$\int_{0,3}^{1,1} \frac{\cos(0,3x+0,5)\,dx}{1,8+\sin(x^2+0,8)}.$	69	$\int_{1,4}^{2,1} \frac{dx}{\sqrt{3x^2-1}};$
35	$\int_{0,3}^{1,1} \frac{\sin(0,6x^2+0,3)\,dx}{2,4+\cos(x+0,5)}.$	70	$\int_{1,2}^{2,4} \frac{dx}{\sqrt{0,5+x^2}};$