Вычислить определенный интеграл

№ п/п	Подынтегральная функция f(x)	Интервал интегрирования [a; b]	Точность вычислений интеграла
1	$\ln x / x\sqrt{1+\ln x}$	[1; 3.5]	0.001
2	$tg^2 x + ctg^2 x$	[π/6; [π/3]	0.002
3	$1/x\ln x$	[1.5; 3.]	0.0001
4	$\ln^2 x / x$	[1.0; 4,0]	0.003
5	$\sqrt{e^x - 1}$	[0; ln2]	0.0015
6	$xe^x \sin x$	[1.0; 4.0]	0.002
7	$x\dfrac{e^x - e^{-x}}{2}$	[0.0; 2.0]	0.001
8	$1/\sqrt{9+x^3}$	[2.0; 5.0]	0.001
9	$\sin(1/x)x^4$	[1.0; 2.5]	0.0005
10	$x^3 arctgx$	[0.0; $\sqrt{3}$]	0.003
11	$\arcsin\sqrt{x/(1+x)}$	[0.0; 3,0]	0.001
12	$x^2(1+\ln x)$	[1.5; 3.0]	0.0025
13	$1/\sqrt{1+3x+2x^2}$	[0,0; 5.0]	0.001
14	$\sqrt{x^2 - 0.14}/x$	[2.3; 6.0]	0.002
15	$2^{3x}\ln\lvert\cos x\rvert$	[0.0; π/2]	0.001
16	$(e^{3x}+1)/(e^x+1)$	[0.0; 2.0]	0.0015
17	$xarctgx/\sqrt{1+x^2}$	[0.0; 2.0]	0.002
18	$\sin^5 x/\ln(1+x^3)$	[0.0; π/4]	0.001
19	$x^2\sqrt{4-x^2}$	[0.0; 1.8]	0.0006
20	$e^x \cos^2 x$	[0.0; π]	0.0016
21	$(1.5x^2+x)/(x^3+2)$	[0.0; 1.2]	0.002
22	$(\sin - x^3)/(x^2+2.7)$	[2.0; 4.4]	0.0014
23	$(3.5tgx+x)/(x^3+3.7)$	[0.0; 1.2]	0.002
24	$(1.2-3.2x^2)/(1+\sin^2 x)$	[2.0; 4.4]	0.0011
25	$(3.17x+4{,}2)/\cos^2 x$	[1.0; 2.2]	0.0023
26	$(x^2+3.2)/(x^5+4.7)$	[0,0; 1.8]	0.0015
27	$(1.5x^2+x)/(x^3+2)$	[0.0; 1.2]	0.001
28	$e^x\ln\lvert\sin x^2\rvert$	[1.0; 3.0]	0.002
29	tgx^2/e^{-x^2}	[0.0; 1.0]	0.0013
30	$(1.6x-2{,}7)/(1.5x^3+3.9)$	[1.0; 2.2]	0.0025