Номер варианта	Функция	Ряд	Рабочий интервал x
0	$\frac{x}{9+x^2}$	$\frac{x}{9}-\frac{x^3}{9^2}+\ldots+(-1)^n\frac{x^{2n+1}}{9^{n+1}}$	[-1; 1]
1	$\sin^2 x$	$\frac{2x^2}{2!}-\frac{2^3x^4}{4!}+\ldots+(-1)^{n-1}\frac{2^{2n-1}x^{2n}}{(2n)!}$	[0; 1]
2	$\ln(1+x-2x^2)$	$x-\frac{5}{2}x^2+\ldots+\frac{(-1)^{n+1}2^n-1}{n}x^n$	[-0,2; 0,3]
3	$\ln(2+x)$	$\ln 2+\frac{x}{2}-\frac{x^2}{2^3}+\ldots+(-1)^{n-1}\frac{x^n}{n\,2^n}$	[-1; 1]
4	$\frac{3x-5}{x^2-4x+3}$	$-\left(1+\frac{2}{3}\right)-\left(1+\frac{2}{3^2}\right)x-\ldots-\left(1+\frac{2}{3^{n+1}}\right)x^n$	[0; 0,5]
5	$\frac{1}{2x-5}$	$-\frac{1}{5}-\frac{2x}{5^2}-\frac{4x^2}{5^3}-\ldots-\frac{(2x)^{n-1}}{5^n}$	[0; 2]
6	$2(\cos^2 x-1)$	$-\frac{4x^2}{2}+\frac{16x^4}{24}+\ldots+(-1)^n\frac{(2x)^{2n}}{(2n)!}$	[0; 0,5]
7	3^x	$1+\frac{\ln 3}{1!}x+\frac{\ln^2 3}{2!}x^2+\ldots+\frac{\ln^n 3}{n!}x^n$	[0; 1]
8	$\left(\frac{x^2}{4}+\frac{x}{2}+1\right)e^{\frac{x}{2}}$	$1+2\frac{x}{2}+\ldots+\frac{n^2+1}{n!}\left(\frac{x}{2}\right)^n$	[0,1; 0,6]
9	$\left(1-\frac{x^2}{2}\right)\cos x-\frac{x}{2}\sin x$	$1-\frac{3}{2}x^2+\ldots+(-1)^n\frac{2n^2+1}{(2n)!}x^{2n}$	[0,1; 0,6]
10	$(1+2x^2)e^{x^2}$	$1+3x^2+\ldots+\frac{2n+1}{n!}x^{2n}$	[0; 1]
11	$(1+x)e^{-x}$	$1-\frac{x^2}{2}+\frac{x^3}{3}+\ldots+(-1)^{n-1}\frac{n-1}{n!}x^n$	[0; 1]
12	$\frac{1}{4-x^4}$	$\frac{1}{4}+\frac{x^4}{4^2}+\ldots+\frac{x^{4n}}{4^{n+1}}$	[0; 1]
13	$\frac{1+x^2}{2}\operatorname{arctg} x-\frac{x}{2}$	$\frac{x^3}{3}-\frac{x^5}{15}+\ldots+(-1)^{n+1}\frac{x^{2n+1}}{4n^2-1}$	[0,1; 0,6]