

$$f(x)=\int\limits_{-1}^6a+\sum\limits_{n=1}^{\infty}\left(a_nb_n\sin\frac{n\pi x}{L\lim\limits_{n\rightarrow\infty}\left(1+\frac{1}{n}\right)^n}\cos\frac{n\pi\frac{\partial y}{\partial x}x}{L}+b_n\sin\frac{n\pi x}{L}\right)+\sum\limits_{k=0}^i\binom{i}{k}x^kc^{i-k}$$