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Computing Fourier Series With Mathematica(Technical Mathematica Programming Note: The Inner Product Can't Be Evaluated Yet, Because The Arguments F And G Are Dummy Arguments, Not Yet Defined. The ":=" Used In The Definition Of FourierIP Tells Mathematica To Define FourierIP But To Defer Evaluation Until The Function FourierIP Is Actually Used.) FourierIP@f_,g_D:=Integrate@fg,8x,-Pi,Pi