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def Fact(n):
    if n==0:
        return(1)
    else:
        return(n*Fact(n-1))

def PolyHorner(L,x):
    if len(L)==1:
        return(L[0])
    else:
        L[-2] += L[-1]*x
        del L[-1]
        return(PolyHorner(L,x))

def RangMini(x,epsilon):
    n = 0
    y = 1
    while y > epsilon:
        n += 1
        y = x**(2*n)/Fact(2*n)
    return(n)

def EvalSommePartielle(x,n):
    return(PolyHorner([(-1)**i/Fact(2*i) for i in range(n+1)],x))

def CosApprox(x,epsilon):
    return(EvalSommePartielle(x**2,RangMini(x,epsilon)-1))

```