

Answer on Question #85331 - Math - Complex Analysis

$$\cos^2(z) = \frac{1 + \cos(2z)}{2} = \frac{1 + \sum_{n=0}^{\infty} \frac{(-1)^n (2z)^{2n}}{(2n)!}}{2} = 1 + \sum_{n=1}^{\infty} \frac{(-1)^n 2^{2n-1}}{(2n)!} z^{2n}$$