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- **2.** [8 points] Consider the function $G(x) = x^3 \cos(2x)$.
 - **a**. [4 points] Give the first four nonzero terms of the Taylor series of G(x) centered about x = 0.

Answer:

b. [4 points] Find $G^{(2023)}(0)$. You do not need to simplify.