Exercise 1 (5 points)
Evaluate \( \int x^5 e^{x^3} \, dx \). (Hint: use the substitution \( t = x^3 \)).

Exercise 2 (5 points)
Evaluate \( \int e^x \sin^3(e^x) \cos^2(e^x) \, dx \).
Exercise 1 (5 points)
Evaluate \(\int \sin(2x) \ln(\sin x) \, dx\). (Hint: use the substitution \( t = \sin x \))

Exercise 2 (5 points)
Evaluate \(\int x \tan^3(x^2) \sec^4(x^2) \, dx\)