

1. Write a MATLAB code for graphing the surface of the function $e^x + e^y$ and execute it.

2. Write a MATLAB code to evaluate $\int_{x=0}^2 \int_{y=0}^{\frac{x^2}{4}} x y \, dx \, dy$ and execute it. Also visualize it.

3. Write a MATLAB code to evaluate $\int_{y=0}^3 \int_{x=1}^{\sqrt{4-y}} (x+y) \, dx \, dy$ by changing the order of the integration and execute it. Also visualize it.