

Write a MATLAB script `Assignment5_GroupX.m`¹ that computes the following double integral:

$$I(c) = \int_0^1 \int_0^2 \frac{\sin(x^2 + y^2)}{\sqrt{c + x + y}} dx dy$$

Compare the results of the functions `quad2d` and `integral2` for $c = 0, 1, 10$.

¹X is your group number