第3次作业

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摘要：本文使用的程序和文档发布于<https://grwei.github.io/SJTU_2021-2022-2-MS8402/>.

关键词：词1，词2

Homework 3

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**Abstract****:** The programs and documents used in this article are published at <https://grwei.github.io/SJTU_2021-2022-2-MS8402/>.

**Keywords:** keyword 1, keyword 2

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# Question 1

Plot the spatial pattern of the stream function for the subtropical-gyre circulation based on  
the mathematical expression we derived in class (Hint: use the commands “contour” or “contourf” in Matlab or Python to make this plot).

## Solution



# Question 2

Download one global ocean reanalysis product during a winter month (Hint: you can find  
different products produced by different research agencies at https://reanalyses.org/ocean/overview-current-reanalyses, and download the monthly-mean data), and plot the vertical profiles of the stratification frequency *N* for one location in the tropical ocean, one location in the mid-latitude ocean and one location in the polar ocean (give the longitude and latitude information for these locations). Describe the differences in these profiles and try to give the reasons.

References