

# Homework 1 of Computational Mathematics

Chang, Yung-Hsuan

111652004

Department of Applied Mathematics

March 5, 2024

**Problem 1.**

The car Jack wants to buy comes in four colours; with or without air conditioning; with five different options for stereo systems; and a choice of none, two, or four floor mats. If the dealership he visits has three cars in the lot, each with different options, what is the probability that one of the cars they have in stock has exactly the options he wants?

**Solution.**