MA 351 Fall 2025 (Aaron N. K. Yip) Homework 7

Due: Friday, Nov. 7, 12:00pm, in MATH 432 (slide under the door if closed)

Penney, Linear Algebra: Ideas and Applications (4th edition)

p.93 EXERCISES: 1.131, 1.132, 1.133;

p.157 EXERCISES: 3.1, 3.5, 3.6, 3.10, 3.11, 3.15, 3.22, 3.23, 3.24

p.173 EXERCISES: 3.26, 3.41, 3.42, 3.44

p.190 EXERCISES: 3.64(a-f), 3.72

Remark: for 3.44, make sure you can find all the possible matrix B satisfying the required condition.

In addition, find a basis for space of all such B's.