

MA 351 Fall 2024 (Aaron N. K. Yip)

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

Homework 6: Due: Tuesday, Oct. 15th, in class

Section 2.1 EXERCISES, p. 112: 2.19, 2.24(a,c,e,g), 2.25(a,c,e,g),

Section 2.2 EXERCISES, p. 123: 2.32, 2.33, 2.35, 2.39, 2.46.

(For 2.32, you just need to find one basis for each space.

For 2.39 and 2.46, you need to verify the *defining properties* of a basis: (1) it is linearly independent, *and* (2) it spans the whole space. *After that*, can you think of how to make use of Theorem 2.8, p.119, to simplify the solution of this problem?)

Homework 7: Due: Thursday, Oct. 17th, in class

Section 2.3 EXERCISES, p.143: 2.64, 2.65, 2.66(a,c), 2.67(a,c), 2.74