3 Exercise

- exercises on linear combinations
- exercises on span and spanning sets
- methods for determining linear independence

  (i) observe - does it contain zero vector? two vectors are dependent only when multiple of each other, is there "too many" vectors (Theorem 2.8)? is there an easy combination that gives zero vector? standard unit vectors are independent, etc.

  (ii) column vectors, find solutions of homogeneous system, (Theorem 2.6)

  (iii) row vectors, does row echelon form contain zero rows? (Theorem 2.7)

- miscellaneous exercises on linear independence

3 Homework

(a) The following exercises from the section Exercise 2.3 on page 103.

1,3,8,12,19–22,26,28,30,33,35,42b,43b,46.

(b) The following exercises on page 123.

32, 37, 38

(c) If you are interested read the few pages about GPS at the end of this weeks text. We will not have time to discuss it during class.