M341 (92150), Homework #2

Due: 10:00am, Friday, Jul. 19

Instructions: Questions are from the book "Elementary Linear Algebra, 4th ed." by Andrilli & Hecker. Please show all your work, not only your final answer, to receive credit. Keep answers organized in the same order the problems have been assigned.

Proof techniques (1.3)

p. 44-47, #1, 4, 5, 6, 10, 11, 14, 15, 19

In addition:

- A) For #10, state the contrapositive and inverse of each statement and whether these are true or false.
- B) Show that #14 implies #17 by writing $\boldsymbol{x}=\boldsymbol{x}_1+\cdots+\boldsymbol{x}_n$ for an appropriate choice of $\boldsymbol{x}_1,...,\boldsymbol{x}_n$.