Though this is called a "PAR," we will not be doing the peer-assisted reflection portion of this assignment.

We've come a long way in this course—we've gone from row-reduction to matrix equations, from spans and linear independence to eigenvectors and diagonalization. It's now time to reflect on the term and see how we've changed.

This homework involves writing two short essays. Essay 1 should be at most one page and essay 2 should be 1–2 pages. Please label your essays appropriately.

- 1. Before the course started, you wrote a homework 0. Please re-read what you wrote for homework 0 and explain whether or not your thoughts on any of the questions have been reinfoced or changed. Please provide at least one example of why your opinions now are the same or different. The example can come from this class, but it doesn't have to.
- 2. Imagine you are writing a letter to a parent/aunt/uncle who has taken technical math/science courses in the past, but has forgotten most of the terminology. Write to this audience explaining what Math 240 is about, and highlight the main ideas in the class (when writing to non-technical audience, examples are key). In your essay, please do the following:
 - (i) address at least one of the three over-arching Learning Outcomes listed on the course syllabus and whether you feel you've achieved that learning outcome;
 - (ii) include one technical math definition written in both math language and explained with plain English
 - (iii) explain, for at least one linear algebra concept, how it can be viewed geometrically and algebraically.

Your essay should start on a new page (i.e., essay 1 gets its own page(s) and this essay gets its own pages). To help you set the mood, start your letter with,

Dear Mom.

This term at Northwestern I've been taking Math 240, which is a course about...

Of course, if you're inspired to start your essay a different way, feel free to! You should have fun with this essay. After all, how often do you get a chance to explain to others and yourself what a university course really taught you?

Some guidelines on how your essay will be evaluated:

- Acceptable: Correctly identified a learning outcome from the syllabus and conveyed to the reader whether or not you have achieved it; gave a definition in mathematical and plain language; gave an example of a concept that we view geometrically and algebraically.
 - Good: Correctly identified a learning outcome from the syllabus and explained clearly why you have or have not achieved it; gave a definition in mathematical and plain language and explained how this definition relates to solving linear algebra problems; gave an example of a concept that we view geometrically and algebraically.
- Excellent: Correctly identified a learning outcome from the syllabus, discussed how this learning outcome connects to specific material or themes from the course, and explained clearly why you have or have not achieved it; gave a definition in mathematical and plain language and explained how this definition relates to solving linear algebra problems and how definitions play an important role in linear algebra; gave an example of a concept that we view geometrically and algebraically and explained how having a geometric and algebraic viewpoint of the same concept is useful.