I care about your success and have designed 2240 to help you learn, incorporating feedback from prior students and principles from the literature like *Make It Stick: The Science of Successful Learning* by Peter Brown, which I highly recommend.



Try it Out!
low stakes *i*-
clickers & hwReview and Understand: feedback and solutions. Try the prob-
lems on your own from scratch (without the solutions in front
of you) after a day or two, and again before an exam.Apply: Problem
Sets, Exams, Fi-
nal Project \circ yets vality to be a specific
 $v_1 = \frac{1}{2}$
or when $k \neq \pm 1$
or when $k \neq \pm 1$ The top of the top be a material to be to be to be to be to be a specific
 $v_1 = \frac{1}{2}$ and $v_2 = \frac{1}{2}$
or when $k \neq \pm 1$
or when $k \neq \pm$

		x1,,xn respectively.
only when $k \neq \pm 1$	Quiz navigation	For true/false questions, the book instructs: if a statement is false, provide a specific counterexample. If it is true, quote a phrase and page number from the book.
The correct answer is: only when $k eq \pm 1$	2x2 123 True/False	True and I found a phrase and page number from the text X it is false-write down a system that has infinite solutions and see how the part that reads "is a list of numbers" is a problem False and I can provide a counterexample
Part e) Does this system ever have infinitely many solutions, for a $k?$ \bigcirc yes	4 5 6 7 3x3 8	other Mark 0.00 out of 1.00
no √		The correct answer is: False and I can provide a counterevample
The correct answer is: no		Check
Part g) How many solutions are there for a k so that $k \neq \pm 12$ 0 × Part g) How many solutions are there for a k so that incorrect try again, you have		A system with infinite solutions would provide a counterexample, because the solution set would be all assignments of the numbers, not just one assignment of them that works. The problematic text here is

Check Instantaneous Feedback, Repeatable

General Feedback

The purpose of homework is to learn and practice computational strategies, concepts, and develop critical thinking and problem-solving skills, so you should first try problems on your own. Making mistakes is integral to the learning process—the key is to try to engage rather than give up. It is on purpose that there are problems in the homework that don't look exactly like what we did in class in order to provide you with rich settings to explore in order to learn deeply and stretch you beyond what we do in class.

Online Homework (Part 1) **Instantaneous Feedback** opens after you "check" a response in a given problem, and then you can retake it as needed. **General Feedback** opens after you submit all problems on an assignment and finish (you can retake an assignment before it is due-that is repeatable too!). For credit I ask for a good faith effort—you'll see a check when you have achieved that. The point of these is to help you develop your understanding. **Glossary Entries** are also available for you to click on at any point in the process to help—you should work to internalize the concepts as you learn the language of linear algebra.

The purpose of **Paper Homework** (Part 2) is to build your independence as your further engage with the concepts. Show work. For true/false attempt to defend your reasoning: if it is true, quote a page number and otherwise produce a counterexample. If you are stuck, ask a question you would ask another student to progress or find something similar like the "closest example I can find is example 1 on page..." If you are stuck, try to engage beyond "where do I begin?" by finding some connection to course resources, restating definitions, or showing an example that you tried.

Solutions (to online and paper hw, and problem sets) open on the due date. Skim through them—I strive to help you understand the bigger-picture and/or diverse methods and perspectives, so some problem solutions may have more than what the problem asked for, or may have two different solutions.

Try the problems on your own from scratch (without the solutions in front of you) after a day or two, and again before an exam. I provide the problem numbers that I adapt online homework from.