
1 How to Use this Text

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In this section we will cover some technical aspects of using this text. In particular, you will learn about the following features:

- Machine-graded exercises.
- Using GeoGebra interactives.
- Using Octave cells.

Machine-Graded Exercises

Machine-graded exercises on the XIMERA platform are designed to help you learn without penalizing you for not getting the right answer the first time. You can enter answers until you get it right.

Question 1 *Try typing 5 in the answer cell below, then answer the question correctly.*

$$2 + 2 = \dots \dots$$

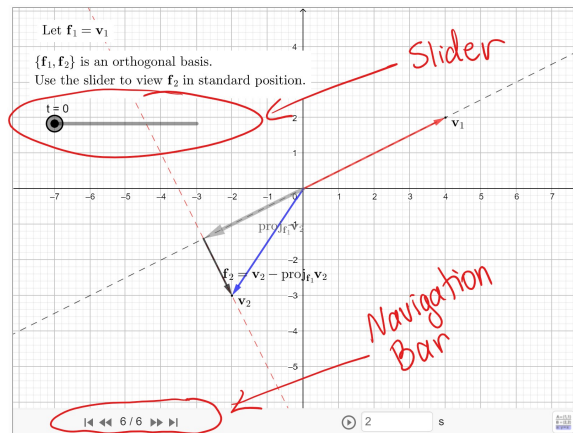
You can enter answers in fraction or in decimal form, as long as your answers are exact. For example, the following answers are considered equivalent: $\frac{10}{4} = \frac{5}{2} = 2.5$. However, $\frac{1}{3} \neq 0.333$.

GeoGebra Interactives

GeoGebra interactives are one of the most exciting features of this text. They are designed to give you valuable geometric insights by helping you interact with mathematical objects in three dimensions, and by letting you animate processes. For example, you can visualize two planes and a point in $\mathbb{R}^3$ by rotating the following figure. RIGHT-CLICK and DRAG to rotate the figure for a better view. Try it!

GeoGebra link: <https://www.geogebra.org/m/unceva9g>

The following screenshot highlights the *navigation bar* and the *slider*. Both tools are used to guide you through constructions and algorithms, one step at a time. Start by using the *navigation bar*. Click the arrows to advance slides. When the *slider* appears, you can use it to animate the perpendicular vector.



Try it out below:

GeoGebra link: <https://www.geogebra.org/m/xtqppyav>

GeoGebra offers many more features. Make sure to read the directions in each interactive!

Octave Cells

Please refer to the [Octave Tutorial](#) for more information on how to use Octave and Octave Cells.

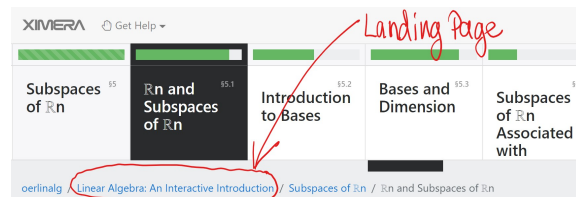
Keeping Track of Progress

XIMERA does not require a log-in. Your answers will be saved automatically, and XIMERA will remember your progress.

Warning 1. You will lose your work if you clear out your cookies. You will also lose your work if you switch to a different computer.

Instructors may require that students submit a proof of completion. This is easy to do.

- Go to the landing page for the course.



- Scroll to the bottom of the page and click on the Certificate button.

Complex Matrices \$12.3	INDEX \$12.4
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You can download a [Certificate](#) as a record of your successes.

- Your instructor may ask you to submit a screenshot of your completion summary.

XIVIERA [Get Help](#)

Linear Algebra OER

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