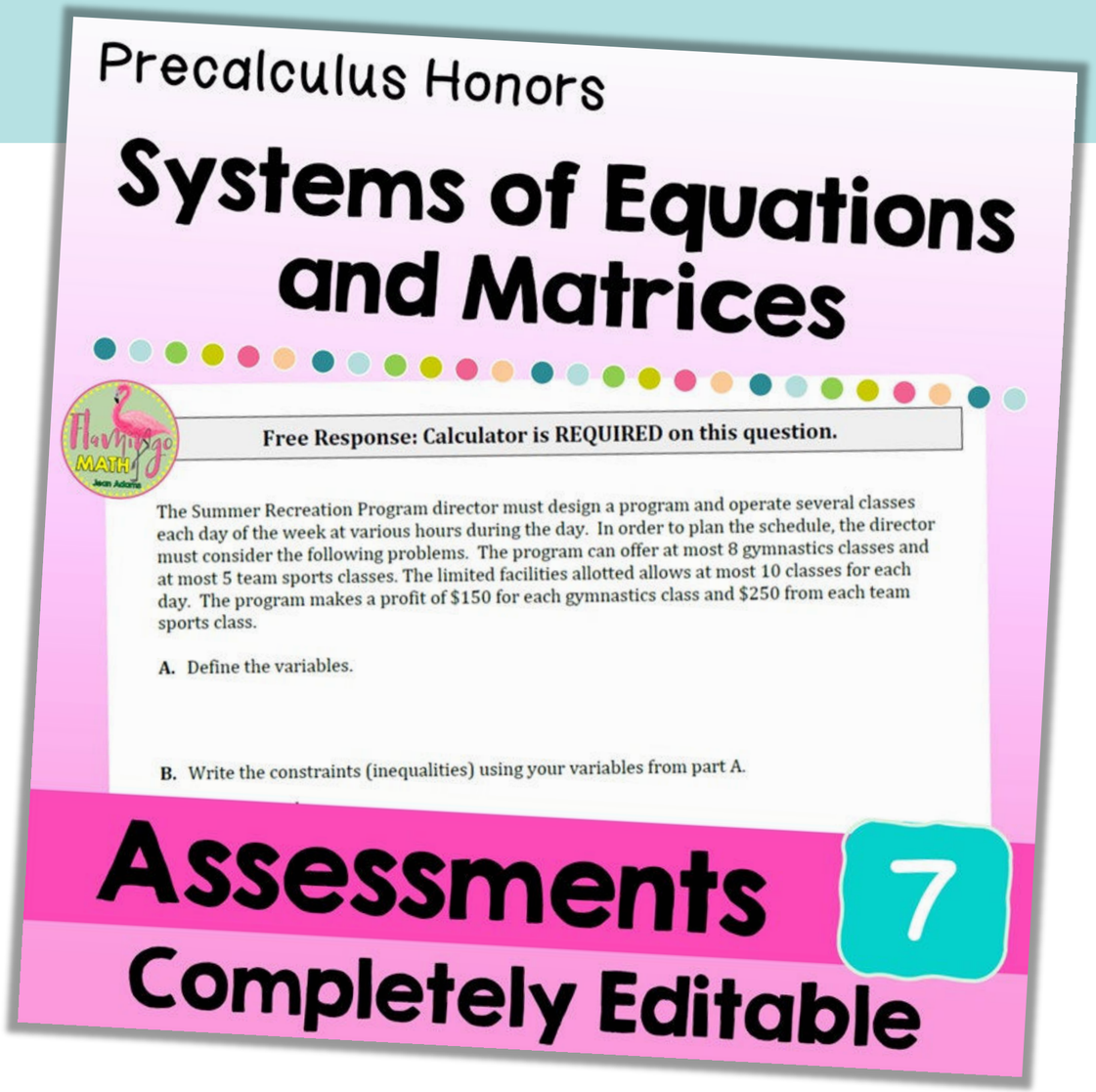
# Are you searching for Precalculus Honors Assessments?

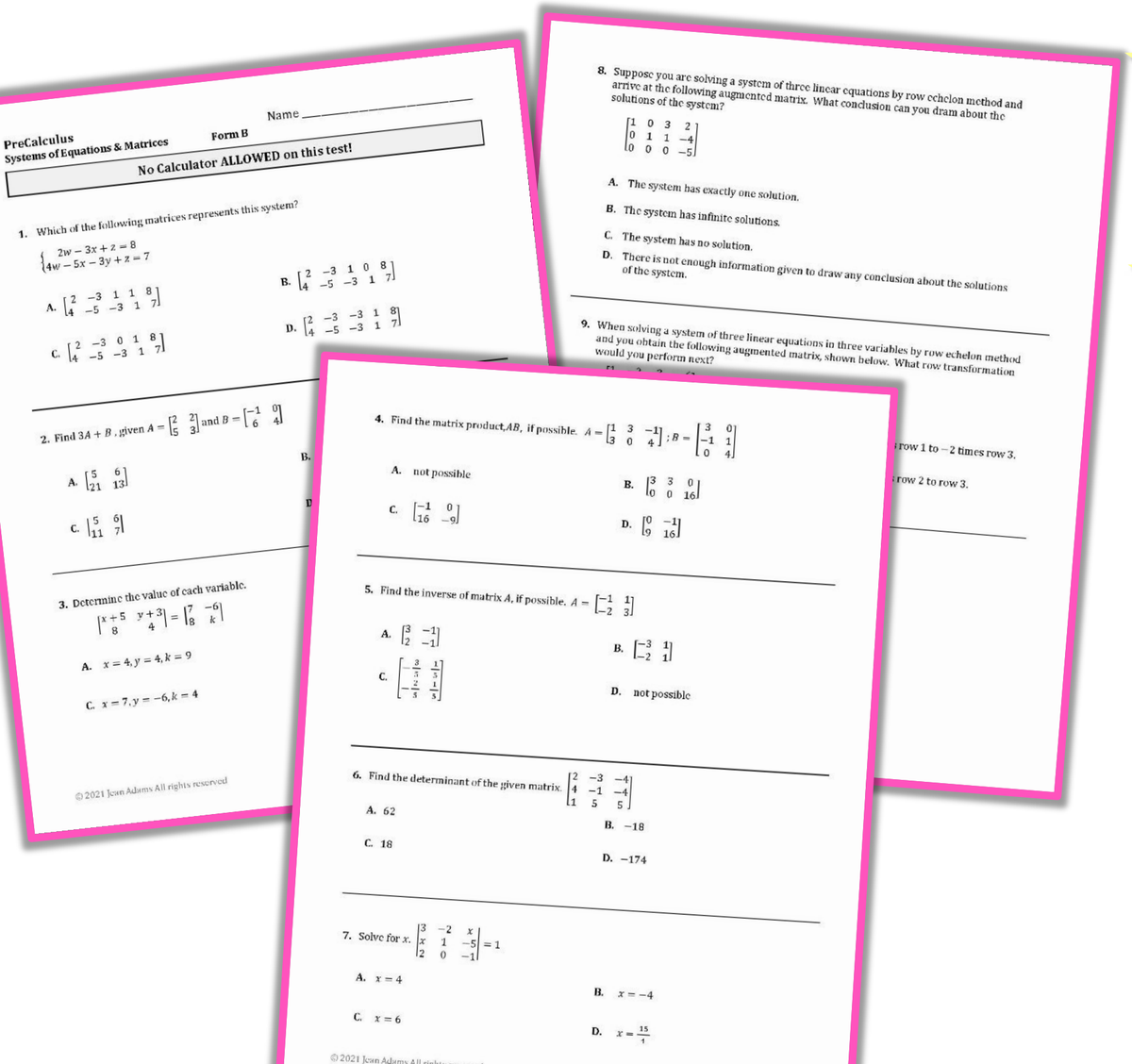
All new editable assessments and so much more to save you time




## Take a look inside!

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# Rigorous assessments aligned to course standards is here.



PreCalculus
Systems of Equations & Matrices

Name _____

Form B

**No Calculator ALLOWED on this test!**

1. Which of the following matrices represents this system?

$$\begin{cases} 2w - 3x + z = 8 \\ 4w - 5x - 3y + z = 7 \end{cases}$$

A. $\begin{bmatrix} 2 & -3 & 1 & 1 & 8 \\ 4 & -5 & -3 & 1 & 7 \end{bmatrix}$

B. $\begin{bmatrix} 2 & -3 & 1 & 0 & 8 \\ 4 & -5 & -3 & 1 & 7 \end{bmatrix}$

C. $\begin{bmatrix} 2 & -3 & 0 & 1 & 8 \\ 4 & -5 & -3 & 1 & 7 \end{bmatrix}$

D. $\begin{bmatrix} 2 & -3 & -3 & 1 & 8 \\ 4 & -5 & -3 & 1 & 7 \end{bmatrix}$

2. Find $3A + B$, given $A = \begin{bmatrix} 2 & 2 \\ 5 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} -1 & 0 \\ 6 & 4 \end{bmatrix}$

A. $\begin{bmatrix} 5 & 6 \\ 21 & 13 \end{bmatrix}$

B.

C. $\begin{bmatrix} 5 & 6 \\ 11 & 7 \end{bmatrix}$

D.

3. Determine the value of each variable.

$$\begin{vmatrix} x+5 & y+3 \\ 8 & 4 \end{vmatrix} = \begin{vmatrix} 7 & -6 \\ 8 & k \end{vmatrix}$$

A. $x = 4, y = 4, k = 9$

C. $x = 7, y = -6, k = 4$

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8. Suppose you are solving a system of three linear equations by row echelon method and arrive at the following augmented matrix. What conclusion can you dram about the solutions of the system?

$$\begin{bmatrix} 1 & 0 & 3 & 2 \\ 0 & 1 & 1 & -4 \\ 0 & 0 & 0 & -5 \end{bmatrix}$$

A. The system has exactly one solution.

B. The system has infinite solutions.

C. The system has no solution.

D. There is not enough information given to draw any conclusion about the solutions of the system.

9. When solving a system of three linear equations in three variables by row echelon method and you obtain the following augmented matrix, shown below. What row transformation would you perform next?

row 1 to −2 times row 3.

row 2 to row 3.

4. Find the matrix product, $AB$, if possible. $A = \begin{bmatrix} 1 & 3 & -1 \\ 3 & 0 & 4 \end{bmatrix}; B = \begin{bmatrix} 3 & 0 \\ -1 & 1 \\ 0 & 4 \end{bmatrix}$

A. not possible

B. $\begin{bmatrix} 3 & 3 & 0 \\ 0 & 0 & 16 \end{bmatrix}$

C. $\begin{bmatrix} -1 & 0 \\ 16 & -9 \end{bmatrix}$

D. $\begin{bmatrix} 0 & -1 \\ 9 & 16 \end{bmatrix}$

5. Find the inverse of matrix $A$, if possible. $A = \begin{bmatrix} -1 & 1 \\ -2 & 3 \end{bmatrix}$

A. $\begin{bmatrix} 3 & -1 \\ 2 & -1 \end{bmatrix}$

B. $\begin{bmatrix} -3 & 1 \\ -2 & 1 \end{bmatrix}$

C. $\begin{bmatrix} -\frac{3}{1} & \frac{1}{1} \\ -\frac{2}{1} & \frac{1}{1} \end{bmatrix}$

D. not possible

6. Find the determinant of the given matrix. $\begin{bmatrix} 2 & -3 & -4 \\ 4 & -1 & -4 \\ 1 & 5 & 5 \end{bmatrix}$

A. 62

B. −18

C. 18

D. −174

7. Solve for $x$. $\begin{vmatrix} 3 & -2 & x \\ x & 1 & -5 \\ 2 & 0 & -1 \end{vmatrix} = 1$

A. $x = 4$

B. $x = -4$

C. $x = 6$

D. $x = \frac{15}{1}$

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★ Where do you find extra time to write rigorous Precalculus assessments?

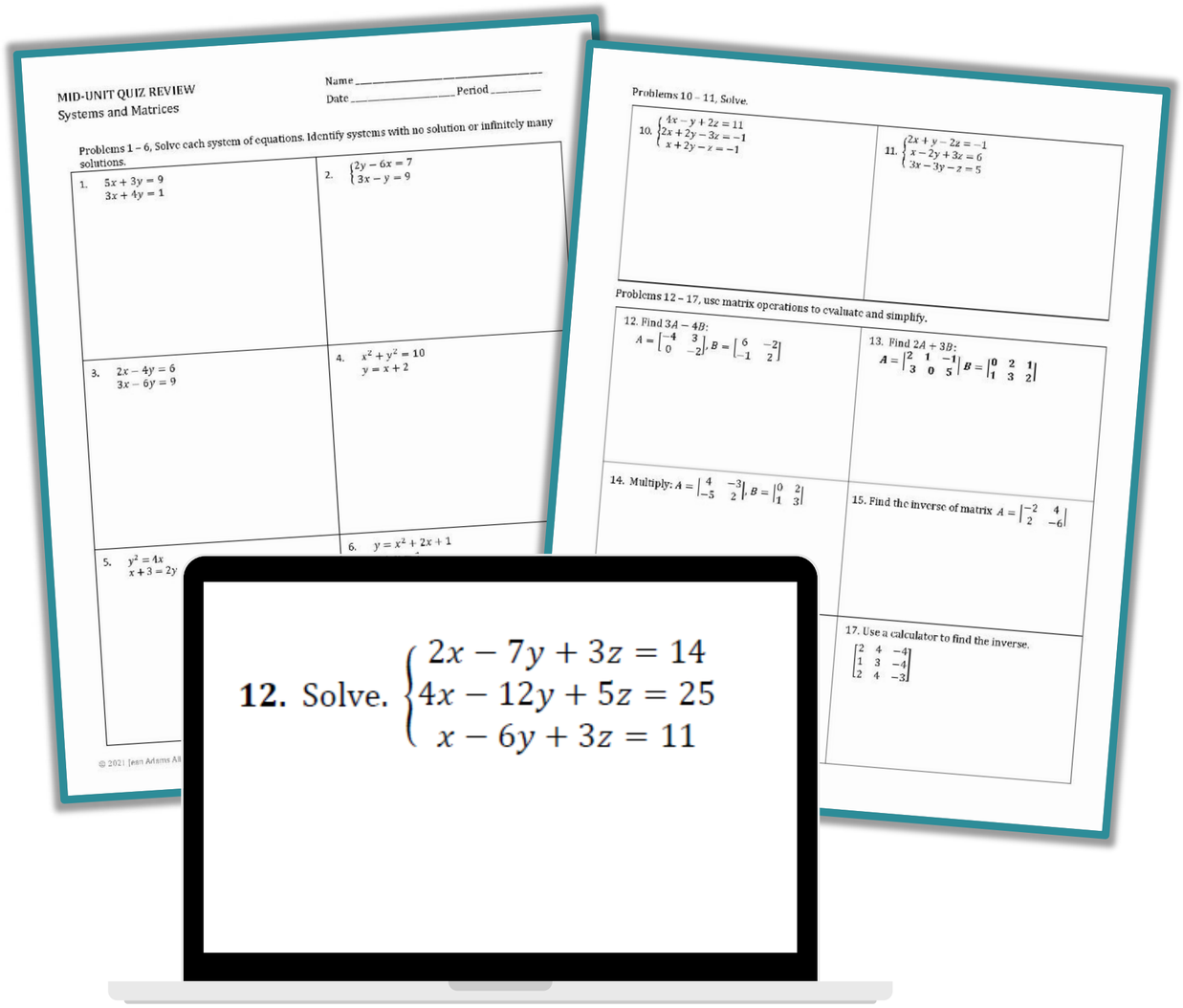
★ Is your class instruction aligned to the course learning objectives and topics?

★ You need assessments that will challenge your students to the rigor of Precalculus Honors for success.

## Flamingo Math will be your silent testing partner!

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# WHAT IS INCLUDED?



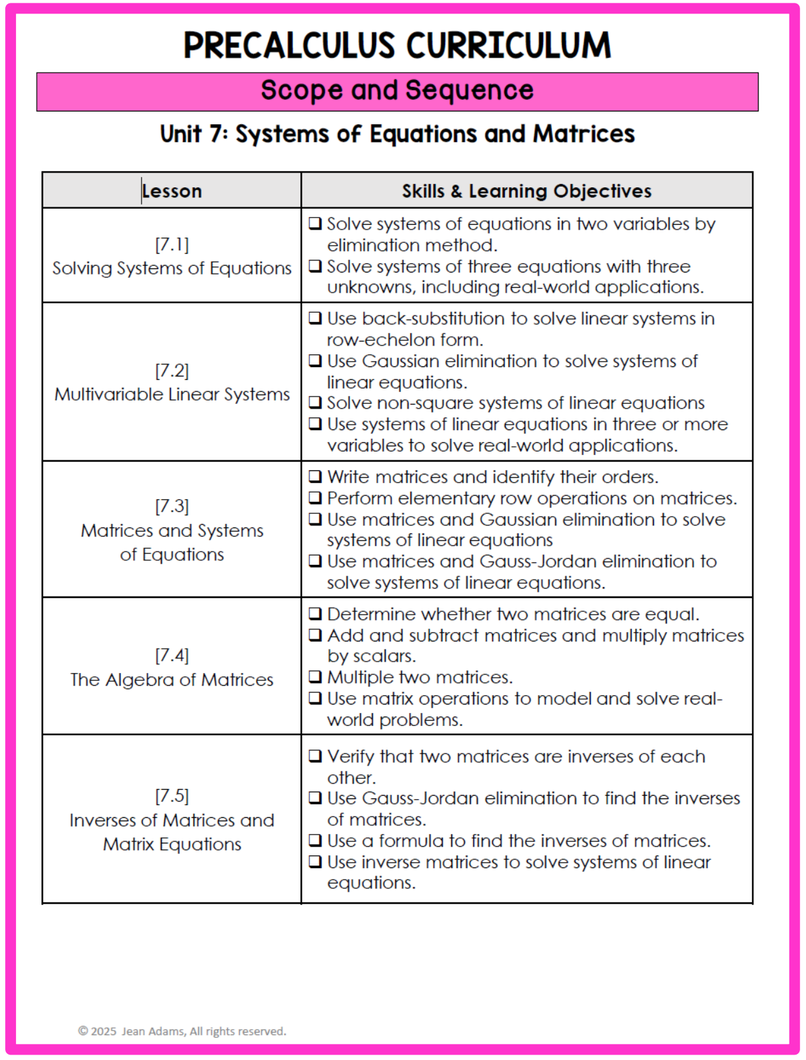

- Editable Review assignments
- Editable assessments
- Full solution sets
- Extra Practice Topics
- Scope and Sequence

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# Cover the Standards

**Each lesson will provide you and your students with the skills and learning objectives necessary for success in the Precalculus Honors Environment.**

- ❑ You will find an editable scope and sequence document to track the learning objectives for the unit.
- ❑ Each lesson includes Google Slides for your presentation needs.
- ❑ You will also have a ***fully-editable version*** for every lesson, practice set, daily quiz warm up, and assessment.
- ❑ An editable pacing guide for both learning objectives and lesson plans is provided.



**PRECALCULUS CURRICULUM**

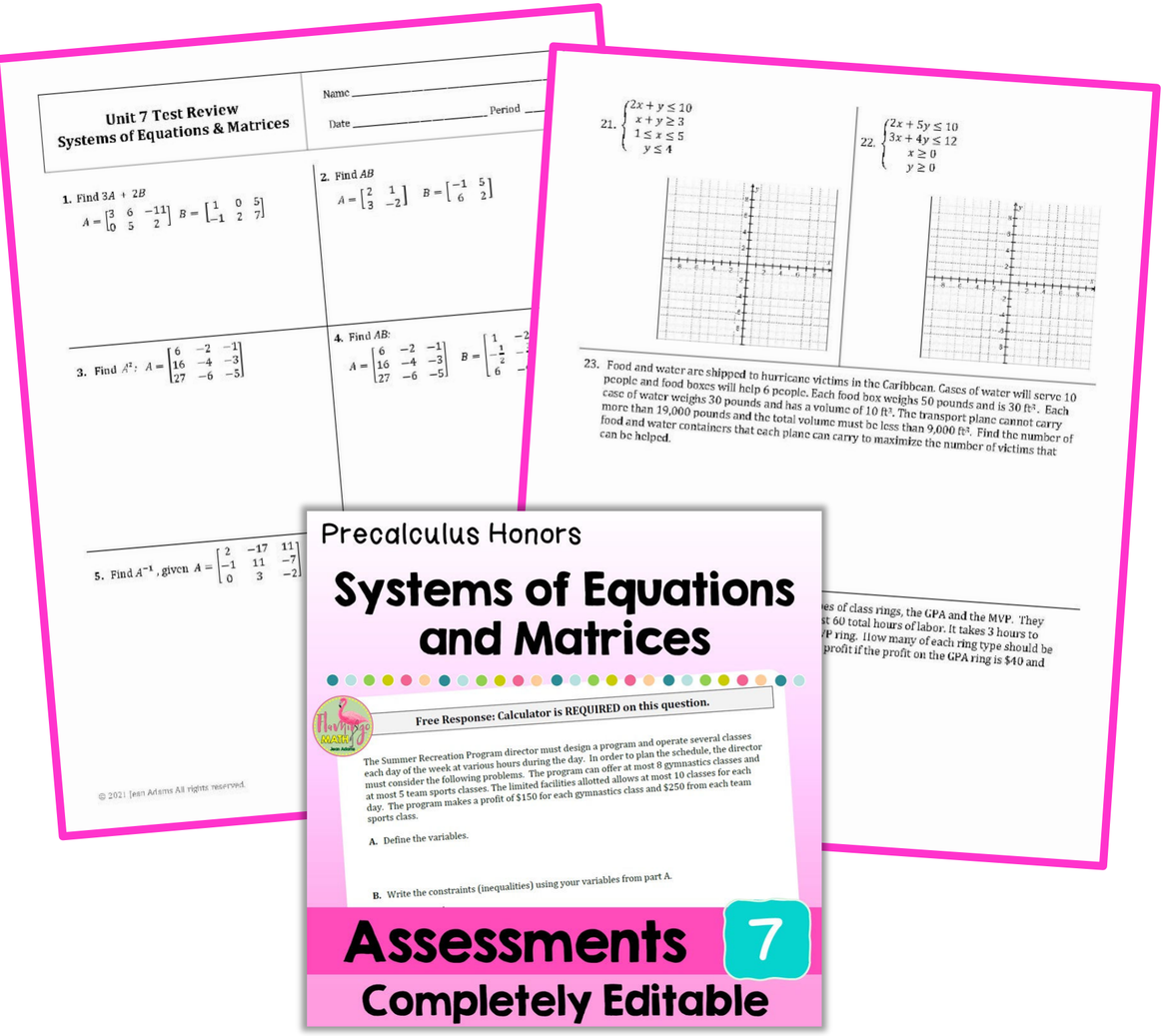
**Scope and Sequence**

**Unit 7: Systems of Equations and Matrices**

| Lesson | Skills & Learning Objectives |
|---|---|
| [7.1] Solving Systems of Equations | ❑ Solve systems of equations in two variables by elimination method.<br>❑ Solve systems of three equations with three unknowns, including real-world applications. |
| [7.2] Multivariable Linear Systems | ❑ Use back-substitution to solve linear systems in row-echelon form.<br>❑ Use Gaussian elimination to solve systems of linear equations.<br>❑ Solve non-square systems of linear equations<br>❑ Use systems of linear equations in three or more variables to solve real-world applications. |
| [7.3] Matrices and Systems of Equations | ❑ Write matrices and identify their orders.<br>❑ Perform elementary row operations on matrices.<br>❑ Use matrices and Gaussian elimination to solve systems of linear equations<br>❑ Use matrices and Gauss-Jordan elimination to solve systems of linear equations. |
| [7.4] The Algebra of Matrices | ❑ Determine whether two matrices are equal.<br>❑ Add and subtract matrices and multiply matrices by scalars.<br>❑ Multiple two matrices.<br>❑ Use matrix operations to model and solve real-world problems. |
| [7.5] Inverses of Matrices and Matrix Equations | ❑ Verify that two matrices are inverses of each other.<br>❑ Use Gauss-Jordan elimination to find the inverses of matrices.<br>❑ Use a formula to find the inverses of matrices.<br>❑ Use inverse matrices to solve systems of linear equations. |

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# Reviews from Happy Teachers!




> This resource was an excellent addition for my Precalculus Honors students. The mix of free response questions and the multiple choice is exactly what I was looking for. *Roberto F.*

> Great resource for Honors PreCalc kids!! It definitely made them dig deeper into functions, which is what they needed. *Vickie P.*

> Jean has great, thoughtful assessments. Excited to use in Precalculus this year! *Christina N.*

# Full Year Curriculum

The MEGA Bundle provides ten units for you to design the perfect Precalculus Honors course for your state and district standards; including activities, video lessons, presentation tools, and so much more.

- Save over 20% when you purchase the full year curriculum bundle.
- Let Flamingo Math help you teach!

> I have the AP Calculus curriculum and it is awesome! I am so excited to use this for my Pre-Calculus classes! I know the students entering AP Calculus will be better prepared because of using this curriculum. Thank you very much! *Alicia B.*

