# Finite Mathematics

*for Business, Economics, Life Sciences,*
*and Social Sciences*

FOURTEENTH EDITION

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# MyLab Math for *Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences*, 14e

**(access code required)**

Used by over 3 million students a year, MyLab™ Math is the world's leading online program for teaching and learning mathematics. MyLab Math delivers assessment, tutorials, and multimedia resources that provide engaging and personalized experiences for each student, so learning can happen in any environment.
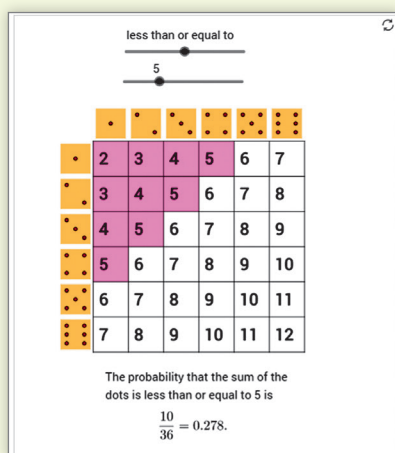


## Interactive Figures

A full suite of Interactive Figures has been added to support teaching and learning. The figures illustrate key concepts and allow manipulation. They have been designed to be used in lecture as well as by students independently.

## Questions that Deepen Understanding

MyLab Math includes a variety of question types designed to help students succeed in the course. In Setup & Solve questions, students show how they set up a problem as well as the solution, better mirroring what is required on tests. Additional Conceptual Questions provide support for assessing concepts and vocabulary. Many of these questions are application oriented.



Solve the linear system by the Gauss-Jordan elimination method.

$$\begin{cases} x + y - z = -5 \\ -x + 4y + 16z = 7 \\ -4x + y + 4z = -7 \end{cases}$$

Without changing the order of any rows or columns, write a matrix that represents the system.

$$\begin{bmatrix} 1 & 1 & -1 & -5 \\ -1 & 4 & 16 & 7 \\ -4 & 1 & 4 & -7 \end{bmatrix}$$

(Do not simplify. Type an integer or simplified fraction for each matrix element.)

The solution of the system is $x = \frac{7}{3}$, $y = -\frac{27}{5}$, $z = \frac{29}{15}$.

(Simplify your answers. Type integers or fractions.)

**pearson.com/mylab/math**

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# Table of Contents

# Table of Contents

# Table of Contents

# Table of Contents

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