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Chapter 2

SYSTEMS OF LINEAR EQUATIONS AND MATRICES

2.1 Solution of Linear Systems by the Echelon Method

Year Turn 1

$$2x + 3y = 12 \quad (1)$$

$$3x - 4y = 1 \quad (2)$$

Use row transformations to eliminate x in equation (2).

$$2x + 3y = 12$$

$$3R_1 + (-2)R_2 \rightarrow R_2 \quad 17y = 34$$

Now make the coefficient of the first term in each equation equal to 1.

$$\frac{1}{2}R_1 \rightarrow R_1 \quad x + \frac{3}{2}y = 6$$

$$\frac{1}{17}R_2 \rightarrow R_2 \quad y = 2$$

Back-substitute to solve for x .

$$x + \frac{3}{2}(2) = 6$$

$$x + 3 = 6$$

$$x = 3$$

The solution of the system is $(3, 2)$.

Year Turn 2

Let x = number of shares of Kohl's stock

y = number of shares of Best Buy stock

$$x + y = 188 \quad (1)$$

$$32x + 27y = 8601 \quad (2)$$

Year Turn 3

Since there are 60 utensils with a total weight of 189.6 pounds, the equations of Example 3 become

$$x + y + z = 60 \quad (1)$$

$$3.9x + 3.6y + 3.0z = 189.6 \quad (2)$$

where x = the number of knives, y = the number of forks, and z = the number of spoons.

$$x + y + z = 60$$

$$3.9R_1 + (-1)R_2 \rightarrow R_1 \quad 0.3y + 0.9z = 44.4$$

$$x + y + z = 60$$

$$\frac{-1}{0.3}R_1 \rightarrow R_1 \quad y + 3z = 148$$

Solve for y in terms of the parameter z : $y = 148 - 3z$

Substitute this expression into equation (1).

$$x + (148 - 3z) + z = 60$$

Then solve for x .

$$x = 2z - 88$$

Since both x and y must be nonnegative, we have:

$$3z \leq 148 \quad \text{or} \quad z \leq \frac{148}{3} \quad \text{so} \quad z \leq 49$$

$$2z \geq 88 \quad \text{or} \quad z \geq 44$$

The largest number of spoons is thus 49; the

Finite Mathematics Tenth Edition Solution Manual

Arthur James Wells



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Solutions Manual to accompany Finite Mathematics Carla C. Morris, Robert M. Stark, 2015-09-08 A solutions manual to accompany Finite Mathematics Models and Applications In order to emphasize the main concepts of each chapter Finite Mathematics Models and Applications features plentiful pedagogical elements throughout such as special exercises end notes hints select solutions biographies of key mathematicians boxed key principles a glossary of important terms and topics and an overview of use of technology The book encourages the modeling of linear programs and their solutions and uses common computer software programs such as LINDO In addition to extensive chapters on probability and statistics principles and applications of matrices are included as well as topics for enrichment such as the Monte Carlo method game theory kinship matrices and dynamic programming Supplemented with online instructional support materials the book features coverage including Algebra Skills Mathematics of Finance Matrix Algebra Geometric Solutions Simplex Methods Application Models Set and Probability Relationships Random Variables and Probability Distributions Markov Chains Mathematical Statistics Enrichment in Finite Mathematics

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