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Chapter 2

SYSTEMS OF LINEAR EQUATIONS AND MATRICES

2.1 Solution of Linear Systems by the Echelon Method

Your Turn 1

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

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

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

$$2x + 3y = 12$$

$$3R_1 + (-2)R_2 \to R_2 \qquad 17y = 34$$

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

$$\frac{1}{2}R_1 \to R_1 \qquad x + \frac{3}{2}y = 6$$

$$\frac{1}{17}R_2 \to R_2 \qquad y = 2$$

Back-substitute to solve for x.

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

$$x + 3 = 6$$

$$x = 3$$

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

Your Turn 2

Let x = number of shares of Kohl's stock

y = number of shares of Best Buy stock

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

$$52x + 27y = 8601 \quad (2)$$

Your Turn 3

Since there are 60 utensils with a total weight of 189.6 pounds, the equations of Example 5 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.

$$x + y + z = 60$$

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

$$x + y + z = 60$$

$$\frac{1}{0.3}R_2 \to R_2 \qquad y + 3z = 148$$

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

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

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

The largest number of spoons is then 49; the

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Sheth, Amit

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