

**Errata**  
for *Finite Mathematics*, fifth edition

page 43, Exercise 35. In the two displayed expressions replace U by X

page 85, Exercise 21. Replace last sentence with: How many different subsets of the group could attend the meeting?

page 100, Example 3.8. Replace the displayed equation and the last sentence of the example with:

$$Pr [C \mid N'] = \frac{Pr [C \cap N']}{Pr [N']} = \frac{Pr [C]}{Pr [N']} = \frac{.18}{.30} = .60$$

That is, if a randomly selected survey indicates that the tourist plans to visit the state, then the probability that commercial transportation will be used is .60.

page 206, change exercise 3 in section 5.1 to read:

Find the x and y intercepts of each of the following lines and graph the lines:

- a)  $2x - y = 4$                       b)  $y - 5 = 0$   
b)  $-x + 3y = 9$                      d)  $x = -2$

Page 406, Review Exercises, Exercise 8(c). Replace with:

- (c) How close are the rows of P(4) to the vector W of part (b)? That is, subtract each row of P(4) from W and examine the results.

page 426, top shaded box. Replace the expression in the last line with:

$$\frac{a^{n+1} - 1}{a - 1}$$

page 500, Replace displayed expression:

Minimize  $\mathbf{Z}^T \mathbf{B}$  subject to  $\mathbf{Z} \geq \mathbf{0}$  and  $\mathbf{Z}^T \mathbf{A} \geq \mathbf{C}$

with:

Minimize  $\mathbf{Z}^T \mathbf{B}$  subject to  $\mathbf{Z} \geq \mathbf{0}$  and  $\mathbf{Z}^T \mathbf{A} \geq \mathbf{C}^T$

Page 398, Exercise 20. Replace reference to Exercise 21 with a reference to Exercise 19.

page A10, Section 2.1, Exercise 13.  $1/12$

page A11, Section 2.2, Exercise 3.  $P(6,4) = 360$

page A11, Section 2.3, Exercise 25.  $C(10,2) - C(6,2) - C(4,2) = 24$

page A12, Section 2.4, Exercise 37.  $1 \leq n \leq 9$

page A14, Section 3.4, Exercise 1. (a)  $1/2$     (b)  $17/24$     (c)  $2/3$     (d)  $8/17$

page A21, Review Exercises, Exercise 33. 72

page A21, Section 5.1, Exercise 3. USA price is \$1.97 per gallon

page A21, Section 5.1, Exercise 5. Answer is a graph of two lines, both through (1,1), one with slope  $-1/2$  and the other with slope  $+1$ .

page A21, Section 5.1, Exercise 25. Cost in dollars =  $.004x$  for  $x$  up to 3,000 gallons and  
cost in dollars =  $12 + .0055(x-3000)$  for  $x$  more than 3,000 gallons.

page A22, Section 5.1, Exercise 13. \$1.10

page A23, Section 5.2, Exercise 5. Replace the displayed equations with:

$$40x + 20y = 12,000 \text{ (peanuts)}$$

$$20x + 60y = 18,000 \text{ (raisins)}$$

$$6x + 5y = 2,700 \text{ (sunflower seeds)}$$

page A24, Section 5.2, Exercise 13.  $x = 4$ ,  $y = 40$

page A24, Section 5.2, Exercise 19. \$450,000 in bonds, \$550,000 in savings

page A25, Section 5.3, Exercise 25. 100 packages of Hiker=s Mix, 300 packages of Biker=s Mix, and no packages of Mike=s Special Mix.

page A27, Review Exercise 31.  $x_1 = I - x_3$ ,  $x_2 = I + x_3$ ,  $x_3$  arbitrary

page A38, Section 7.2, Exercise 13.  $(3/2, 3)$ ,  $(8/3, 2/3)$ ,  $(-2, -4)$

page A43, Section 7.3, Exercise 25. Maximum of 27,000 for 150 full teams and no half teams

page A43, Section 7.3, Exercise 37, (a) minimum of 12 at  $(9, -6)$ , (b) no minimum, (c) minimum of 10 at  $(10, 0)$ .

Page A44, the answer to Exercise 21 part c should be  $64/5$

page A46, Section 8.1, Exercise 13. State 3

page A47, Section 8.1, Exercise 29. The table should be:

<b>Values of X</b>		<b>Probabilities</b>	
1	2	1/4	3/4

page A49, Section 8.2, Exercise 29(a). Entry in second row, first column should be .32

page A49, Section 8.3, Exercise 7(b).  $55/108$

page A50, Section 8.3, Exercise 33. .5

page A52, Section 9.1, Exercise 5. Second row in the table should be:

Semiannually    1000     $1000(1 + .02)^{20}$     1485.95

page A 53, Section 9.2, Exercise 19. 10.024 percent per year