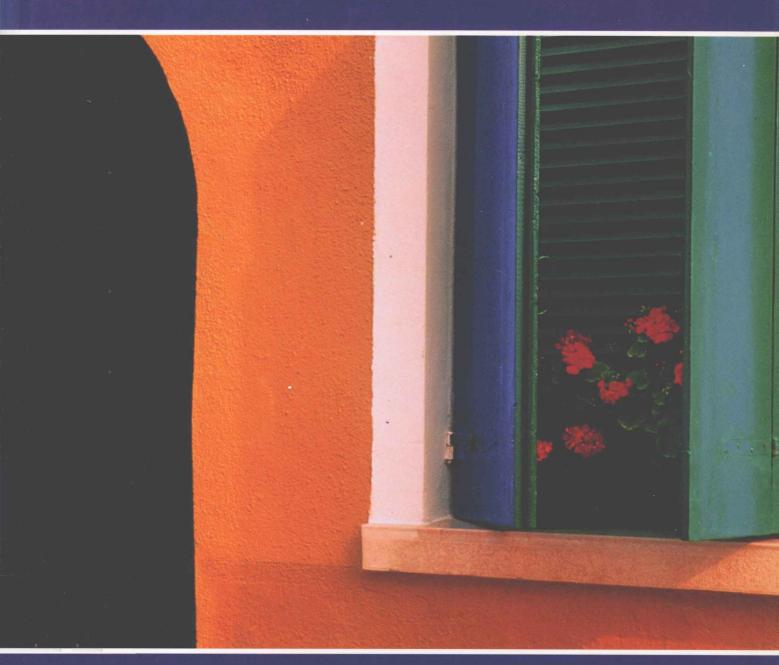
BEGINNING ALGEBRA

A Text/Workbook, SIXTH EDITION



Charles P. McKeague

Beginning Algebra A Text/Workbook

Sixth Edition

Charles P. McKeague

CUESTA COLLEGE





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Applying the Concepts

75. Savings Account Balance A man with \$1,500 in a savings account makes a withdrawal of \$730. Write an expression using subtraction that describes this situation.

Date	Withdrawals	Deposits	Balance
1/1/99			1,500

77. Gambling A man who has lost \$35 playing roulette in Las Vegas wins \$15 playing blackjack. He then loses \$20 playing the wheel of fortune. Write an expression using the numbers -35, 15, and 20 to describe this situation and then simplify it.

78. Altitude Change An airplane flying at 10,000 feet lowers its altitude by 1 500 feet to avoid other air traffic. Then it increases its altitude by 3,000 feet to clear a mountain range. Write an expression that describes this situation and then simplify it.

76. Temperature Change The temperature inside a Space

Shuttle is 73°F before reentry. During reentry the tem

perature inside the craft increases 10°. On landing it drops 8°F. Write an expression using the numbers 73, 10, and 8 to describe this situation. What is the temperature inside the shuttle on landing?

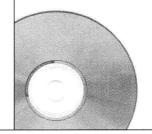
10,000 - 1,500 + 3,000 - 11,500 fee

79. Checkbook Balance Bob has \$98 in his checking account when he writes a check for \$65 and then another check for \$53. Write a subtraction problem that gives the new balance in Bob's checkbook. What is his new

98 - 65 - 53 - - \$20

80. Temperature Change The temperature at noon is 23°F Six hours later it has dropped 19°F, and by midnight it has dropped another 10°F. Write a subtraction problem that gives the temperature at midnight. What is the temperature at midnight?

23 - 19 - 10



81. Depreciation Stacey buys a used car for \$4,500. With each year that passes, the car drops \$550 in value Write a sequence of numbers that gives the value of the car at the beginning of each of the first 5 years she owns it. Can this sequence be considered an arithmetic sequence?

\$4.500, \$3.950, \$3.400, \$2.850, \$2.300; ves

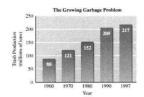
82. Depreciation Wade b Each year after that I \$1,250 less than it w quence of numbers t puter system at the b arithmetic sequence

After working their way through the section, they are ready to start on the problems in the Problem Set, which gives students ample opportunity to hone their skills. Each Problem Set drills students, shows them how concepts can be applied, and provides another chance for review. As an added bonus, a 5- to 10-minute video lesson (featuring Pat McKeague working some of the odd-numbered problems of every section of the text) appears on the complimentary Digital Video Companion CD-ROM. See page 8 for details of this exciting learning tool.

THE BASICS

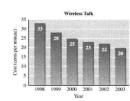
- 93. Garbage Production The bar chart below shows the annual production of garbage in the United States for some specific years
 - (a) Use the information in the bar chart to fill in the missing entries in the table.
 - (b) How much more garbage was there in 1990 than

YEAR	GARBAGE (MILLIONS OF TONS)	
1960	88	
1970	121	
1980	152	
1990	205	
1007	217	



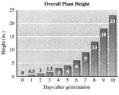
- projected cost of wireless phone use through 2003 (a) Use the chart to fill in the missing entries in the table.
- (b) What is the difference in cost between 1998 and

YEAR	CENTS/MINUTE
1998	33
1999	28
2000	25
2001	23
2002	22



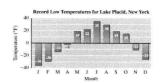
- 94. Grass Growth The bar chart below shows the growth of a certain species of grass over a period of 10 days. (a) Use the chart to fill in the missing entries in the table.
 - (b) How much higher is the grass after 8 days than after 3 days?

DAY	PLANT HEIGHT (INCHES)	DAY	PLANT HEIGHT (INCHES)
0	0	6	6
1	0.5	7	9
2	1	8	13
3	1.5	9	18
4	3	10	23
-	-		



- 96. Temperature The following table and bar chart give the record low for each month of the year for Lake Placid,
 - (a) Find the difference of the May record low and the April record low.
 - (b) Find the difference of the October record low and

MONTH TEMPERATURE (°F)		MONTH TEMPERATURE (*F)	
January	-36	July	35
February	-30	August	30
March	-14	September	19
April	-2	October	15
Мау	19	November	-11
June	22	December	-26



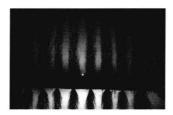
Patient explanations and clear examples

With a hallmark style, McKeague helps students develop a thorough understanding of the concepts essential to their success in algebra.

Increased visualization of topics.

This sixth edition contains many more diagrams, charts, and graphs than in previous editions. This gives students additional information, in visual form, to help them understand the topics covered. These new visuals are featured prominently in each chapter opener.

Linear Equations and Inequalities in Two Variables

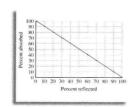


INTRODUCTION

When light comes into contact with a surface that does not transmit light, then all the light that contacts the surface is either reflected off the surface or absorbed into the surface. If we let R represent the percentage of light reflected and A represent the percentage of light absorbed, then the relationship between these two variables can be written as

which is a linear equation in two variables. Table 1 and the following graph show the same relationship as that described by the equation. The table is a numerical description; the graph is a visual description

Table 1		
REFLECT	TED AND	
ABSORB	ED LIGHT	
PERCENT REFLECTED	PERCENT	
0	100	
20	80	
40	60	
60	40	
80	20	



build tables and draw graphs from linear equa

CHAPTER OUTLINE

- 3.1 Paired Data and Graphing Ordered Pairs
- 3.2 Solutions to Linear Equations in Two Variables
- 3.3 Graphing Linear Equations in Two Variables
- 3.4 More on Graphing:
- Intercepts
- 3.5 The Slope of a Line 3.6 Finding the Equation
- 3.7 Linear Inequalities in Two Variables

206 LINEAR EQUATIONS AND INEQUALITIES IN TWO VARIABLES

STUDY SKILLS

- 1. Getting Ready to Take an Exam Try to arrange your daily study habits so that you have very little studying to do the night before your next exam. The next two goals will help you achieve goal number 1.
- 2. Review With the Exam in Mind Each day you should review material that will be covered on the next exam. Your review should consist of working problems. Preferably, the problems you work should be problems from your list of difficult
- 3. Continue to List Difficult Problems This study skill was started in the previous chapter. You should continue to list and rework the problems that give you the most difficulty. It is this list that you will use to study for the next exam Your goal is to go into the next exam knowing that you successfully can work any problem from your list of hard problems.
- 4. Pay Attention to Instructions Taking a test is different from doing homework. When you take a test, the problems will be mixed up. When you do your homework, you usually work a number of similar problems. I sometimes have students who do very well on their homework but they become confused when they see the same problems on a test because they have not paid attention to the instructions on their homework. For example, suppose you see the equation y = 3x - 2 on your next test. By itself, the equation is simply a statement. There isn't anything to do unless the equation is accompanied by instructions. Each of the following is a valid instruction with respect to the equation y = 3x - 2, and the result of applying the instructions will be different in each

Find x when y is 10. Solve for x. (Section 2.5) Graph the equation. Find the intercepts. (Section 3.4)

There are many things to do with the equation y = 3x - 2. If you train yourself to pay attention to the instructions that accompany a problem as you work through the assigned problems, you will not find yourself confused about what to do with a problem when you see it on a test.

Clear application of the concepts. Students start each chapter with

clarifying applications and objectives that help them map out upcoming concepts. Chapters begin with a two-page opening that includes real-world applications or a historical example followed by Study Skills (helpful tips for students).

Enhanced!

Step-by-step guides to successful problem solving.

McKeague's Blueprint for Problem Solving offers a detailed outline of the steps needed to successfully attempt application problems. Intended as a guide to problem solving in general, the Blueprint overlays the solution process to all the application problems in the first few chapters of the book. As students become more familiar with problem solving, the steps in the Blueprint are streamlined.

4.4 Applications

Loften have heard students remark about the word problems in beginning algobra: "What does this have to do with real life?" Most of the word problems we will encounter don't have much to do with "real life." We are actually just practicing Ultimately, all problems requiring the use of algebra are word problems; that is, they are stated in words first, then translated to symbols. The problem then is solved by some system of mathematics, like algebra. Most real applications involve calculus or higher levels of mathematics. So, if the problems we solve are upsetting or frustrating to you, then you probably are taking them too seriously.

The word problems in this section have two unknown quantities. We will write two equations in two variables (each of which represents one of the unknown quantities), which of course is a system of equations. We then solve the system by one of the methods developed in the previous sections of this chapter. Here are the steps to follow in solving these word problems

Blueprint for Problem Solving Using a System of Equations

- Step 1: Read the problem, and then mentally list the items that are known and the items that
- Step 2: Assign variables to each of the unknown items; that is, let x = one of the unknown items and v = the other unknown item. Then translate the other information in the problem to expressions involving the two variables.
- Step 3: Reread the problem, and then write a system of equations, using the items and variables listed in steps 1 and 2, that describes the situation
- Step 4: Solve the system found in step 3.
- Step 5: Write your answers using complete sentences
- Step 6: Reread the problem, and check your solution with the original words in the problem

Remember, the more problems you work, the more problems you will be able to work. If you have trouble getting started on the problem set, come back to the examples and work through them yourself. The examples are similar to the problems found in the problem set.

Number Problem

EXAMPLE 1 One number is 2 more than 5 times another number. Their sum is

lueprint, we have

ne two numbers have a sum of 20 and n is 2 more than 5 times the other. We the numbers themselves are.

one of the numbers and y represent the nber is 2 more than 5 times another

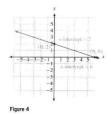
ranslates to

x + y = 20

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LINEAR EQUATIONS AND INEQUALITIES IN TWO VARIABLES

The graph of $y = -\frac{1}{3}x + 2$ is shown in Figure 4. Compare this graph, and the method used to obtain it, with Example 3 in Section 3.3



Getting Ready for Class

After reading through the preceding section, respond in your own words and in complete sentences.

- A. What is the x-intercept for a graph?
- B. What is the y-intercept for a graph?
- **C.** How do we find the *y*-intercept for a line from the equation? **D.** How do we graph a line using its intercepts?

actice Problems

One number is 3 more than twice another. Their sum is 9. Find the

New!

Class-preparation exercises that build confidence.

Located before each problem set, Getting Ready for Class sections require written responses from students, and can be answered by reading the preceding section. They are to be done before the students come to class.

Helping students understand the logic behind the mathematics

Chapter after chapter, McKeague helps students develop their analytical skills while building on their accumulated knowledge and confidence.

Applying the Concepts 45. Hourly Wages Jane takes a job at the local Marcy's department store. Her job pays \$8.00 per hour. The graph shows how much Jane earns for working from 0 to 40 ing from 0 to 40 hours in a week (a) List three ordered pairs that lie on the line graph (b) How much will she earn for working 40 hours? (b) How much will she earn for working 40 hours? (c) If her check for one week is \$240, how many hours (c) If her check for one week is \$230, how many hours did she work? did she work? (d) She works 35 hours one week, but her naycheck before deductions are subtracted out is for \$260. Is this correct? Explain. 47. Garbage Production The table and bar chart from Problem 93 in Problem Set 1.4 are shown here. Each gives the annual production of garbage in the United States for some specific years. Use the information from the table and bar chart to construct a line graph using the template below 200

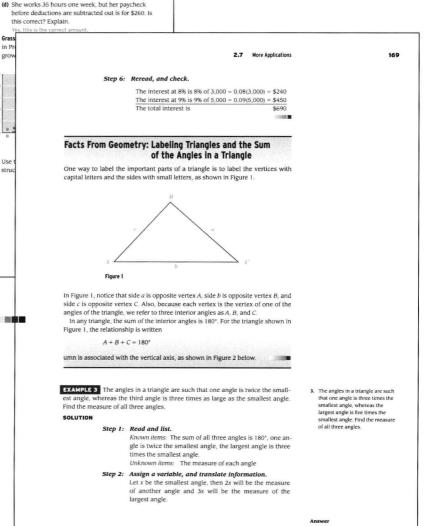
An incorporation of geometry that demonstrates its relationship to algebra.

Facts from Geometry are accompanied by examples so students see how geometry is related to the algebra they are learning.

Exercises that help students interact with the mathematics 46. Hourly Wages Judy takes a job at Gigi's boutique. Her in various forms. job pays \$6.00 per hour plus \$50 per week in comm sion. The graph shows how much Judy earns for work-

3.1 Problem Set 213

Students are required to analyze information from tables and convert it to graphical form, including bar charts and scatter diagrams. From there they are required to graph ordered pairs and linear equations on a rectangular coordinate system.



CHAPTER 3 PROJECTS

Linear Equations and Inequalities in Two Variables

GROUP PROJECT IN

Equipment Needed: Pencil and paper

Background: I found the following diagram while shopping for some track lighting for my home. I was impressed by the diagram because it displays a lot of useful information in a very efficient manner. As the diagram indicates, the amount of light that falls on a surface depends on how far above the surface the light is placed and how much the light spreads out on the surface. Assume that this light illumi-

Although most of the graphs we have encountered in this chapter have been straight lines, many of the graphs that describe the world around us are not straight lines. In this group project we gain experience working with graphs that

enswer the questions

- day to relieve the symptoms of a cold. Figure 1 shows how the concentration of that medication in the patient's system changes over time. The 0 on the horizontal axis corresponds to the time the patient takes the first dose of medication. (The units of concentration on the vertical axis are nanograms per milli-
- (a) Explain what the steep vertical line segments show with regard to the patients and his medication
- (c) What is the maximum concentration of the medication in the patient's
- (d) Find the values of A, B, and C.
- 2. Reading Graphs. Figure 2 show box office to buy tickets for a me
- (a) How many people are in line
- (c) How many people are in line
- (e) How long after the show sta

CHAPTER 4 PROJECTS

BRESEARCH PROJECT BRE

Putting the pieces together.

End-of-chapter retrospectives

of perspectives, ensuring that

include Chapter Summaries,

students truly understand what

approach concepts from a variety

they've just learned. Retrospectives

Cumulative Reviews (beginning in

Chapter Test, followed by a group

project and research project for

Chapter 2), Chapter Reviews, and a

Chapter 4 Projects 339

Cartesian Coordinate System

each chapter.

The stamp shown here was issued by Albania in 1966. It shows the French philosopher and mathematician Rene Descartes. As we mentioned earlier in this chapter, Descartes is credited with the discovery of the rectangular coordinate system. (Notice the coordinate system in the background of the stamp.)



Descartes insisted that his best theories came to him while resting in bed. He once said "the only way to do good work in mathematics and preserve one's health is never to get up in the morning before one feels inclined to do so." One story of how he came to develop the Cartesian (from Descartes) coordinate system is as follows One morning, while lying in bed, he noticed a fly crawling on the ceiling. After studying it, he realized he could state the fly's position on the ceiling by giving its distance from each of the edges of the ceiling. Research this story and then put your results into an essay that shows the connection between the position of the fly on the ceiling and the coordinates of points in our rectangular coordinate system.



Reading Graphs

Number of People: 2-3

Time Needed: 5-10 minutes

nates a circle on a flat surface, and work the following problems.

are not straight lines

Procedure: Read the introduction to each problem below. Then use the graphs to

1. A patient is taking a prescribed dose of a medication every 4 hours during the

(b) What has happened to make the graph fall off on the right?

system during the time period shown in Figure 1?

6:45.

(b) How many people are in line

(d) At what times are there 60 pe

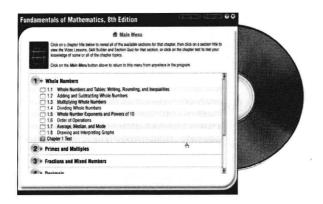
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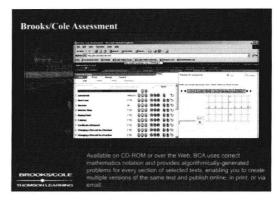
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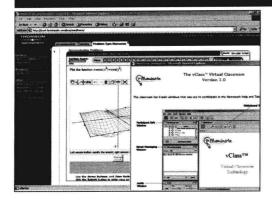
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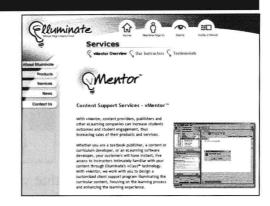
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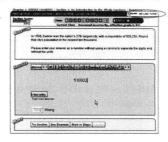
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Chapter 7 - Rational Expressions **Media Resources for Students** Ideas for Instruction **Print Resources Media Resources for Instructors Digital Video Companion Explorations in Beginning and** Test Bank **BCA Testing** Intermediate Algebra Contains 20 text-specific algorithmic Chapter 7 Forms A-H Activity 6 problems per section. Tests can be BC easily created using the Test Wizard. Make the Grade **Complete Solutions** http://bca.brookscole.com **Activities for Beginning and BCA Tutorial** Manual Intermediate Algebra Students can have unlimited practice in Activities 18-19 Chapter 7 **BCA Tutorial** questions and problems. Students can have unlimited Active Arithmetic and Algebra Student Solutions practice in questions and problems. vMentor™ Mathematics of Drawing Manual http://bca.brookscole.com Customized interactive homework the Human Figure Mentor Chapter 7 help and tutorial services online Painting the Classroom http://bca.brookscole.com Volume of Food Historical Notes, Real-World Math, Containers Math News, Career Center, Math Web Site Facts, Web Quizzes, and Internet Activities. Historical Notes, Real-World Math, Math Math Facts http://mathematics.brookscole.com Pages 63-72, 83-86, 89-98, News, Career Center, Math Facts, Web 135-138 Quizzes, and Internet Activities. **Text-Specific Videos** http://mathematics.brookscole.com Algebra Facts, 2/E Chapter 7 Pages 21-22, 27-30, 53-54, **Text-Specific Videos** 57-62, 77-78, 109-110, InfoTrac® College Edition Chapter 7 119-120 www.infotrac-college.com How to Be a Great Math InfoTrac® College Edition WebTutor" Student, 3/E www.infotrac-college.com Chapter 7: Lecture notes, discussion threads, and quizzes Conquering Math Anxiety, 2/E WebTutor" on WebCT. Chapter 7: Lecture notes, discussion threads, and guizzes on WebCT. TI-83 and TI-86 Graphing Calculator Videos TI-83 Segment 3-4 TI-83 and TI-86 Graphing Calculator Videos TI-86 Segment 4-5 TI-83 Segment 3-4 TI-86 Segment 4-5 Chapter 8 - Roots and Radicals **Ideas for Instruction Print Resources Media Resources for Instructors Media Resources for Students Explorations in Beginning and** Test Bank **Digital Video Companion BCA Testing** Intermediate Algebra Contains 20 text-specific algorithmic Forms A-H Chapter 8 Activities 8, 21, 30 problems per section. Tests can be BCA easily created using the Test Wizard. Make the Grade **Complete Solutions Activities for Beginning and** http://bca.brookscole.com Manual **BCA Tutorial** Intermediate Algebra Activity 20 Students can have unlimited practice in Chapter 8 **BCA Tutorial** questions and problems. Students can have unlimited Math Facts Student Solutions practice in questions and problems. Pages 37-40, 133-134, vMentor' Manual http://bca.brookscole.com 147-156 Customized interactive homework Mentor Chapter 8 help and tutorial services online Algebra Facts, 2/E Web Site http://bca.brookscole.com Pages 55-56, Historical Notes, Real-World Math, 105-108,115-118 Math News, Career Center, Math Web Site Facts, Web Quizzes, and Internet Activities. How to Be a Great Math Historical Notes, Real-World Math, Math http://mathematics.brookscole.com Student, 3/E News, Career Center, Math Facts, Web Quizzes, and Internet Activities. **Text-Specific Videos** Conquering Math Anxiety, 2/E http://mathematics.brookscole.com Chapter 8 **Text-Specific Videos** InfoTrac® College Edition Chapter 8 www.infotrac-college.com InfoTrac® College Edition WebTutor" www.infotrac-college.com Chapter 8: Lecture notes, discussion threads, and quizzes WebTutor" on WebCT. Chapter 8: Lecture notes, discussion threads, and quizzes on WebCT. TI-83 and TI-86 Graphing Calculator Videos TI-83 Segment 1 TI-83 and TI-86 Graphing Calculator Videos TI-86 Segment 1 TI-83 Segment 1 TI-86 Segment 1

Ideas for Instruction	Print Resources	Media Resources for Instructors	Media Resources for Students
xplorations in Beginning and	Test Bank	BCA Testing	Digital Video Companion
ntermediate Algebra Activity 16—18, 31	Forms A-H	Contains 20 text-specific algorithmic problems per section. Tests can be	Chapter 9
activities for Beginning and Intermediate Algebra	Complete Solutions Manual	easily created using the Test Wizard. http://bca.brookscole.com	Make the Grade BCA Tutorial
Activity 17	Chapter 9	BCA Tutorial Students can have unlimited	Students can have unlimited practice in questions and problems.
lath Facts Pages 69–70, 151–156	Student Solutions Manual	practice in questions and problems. http://bca.brookscole.com	vMentor" Customized interactive homework
algebra Facts, 2/E Pages 19–20, 23–24, 19–104	Chapter 9	Web Site	help and tutorial services online http://bca.brookscole.com
		Historical Notes, Real-World Math, Math News, Career Center, Math	
low to Be a Great Math tudent, 3/E		Facts, Web Quizzes, and Internet Activities. http://mathematics.brookscole.com	Web Site Historical Notes, Real-World Math, Math News, Career Center, Math Facts, Web
Conquering Math Anxiety, 2/E		Text-Specific Videos	Quizzes, and Internet Activities.
		Chapter 9	http://mathematics.brookscole.com
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		www.infotrac-college.com	InfoTrac* College Edition
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		Chapter 9: Lecture notes, discussion threads, and quizzes on WebCT.	WebTutor*
		TI-83 and TI-86 Graphing Calculator	Chapter 9: Lecture notes, discussion threads, and quizzes on WebCT.
		Videos TI-83 Segment 3 TI-86 Segment 4	TI-83 and TI-86 Graphing Calculator Videos TI-83 Segment 3 TI-86 Segment 4