

## Chapter 8

### Systems of Equations and Inequalities

#### Section 8.1

1.  $3x + 4 = 8 - x$

$$4x = 4$$

$$x = 1$$

The solution set is  $\{1\}$ .

2. a.  $3x + 4y = 12$

$x$ -intercept:  $3x + 4(0) = 12$

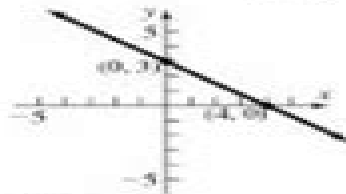
$$3x = 12$$

$$x = 4$$

$y$ -intercept:  $3(0) + 4y = 12$

$$4y = 12$$

$$y = 3$$



b.  $3x + 4y = 12$

$$4y = -3x + 12$$

$$y = -\frac{3}{4}x + 3$$

A parallel line would have slope  $-\frac{3}{4}$ .

3. inconsistent

4. consistent

5. False

6. True

7.  $\begin{cases} 2x - y = 5 \\ 5x + 2y = 8 \end{cases}$

Substituting the values of the variables:

$$2(2) - (-1) = 4 + 1 = 5$$

$$5(2) + 2(-1) = 10 - 2 = 8$$

Each equation is satisfied, so  $x = 2$ ,  $y = -1$ , or

$(2, -1)$ , is a solution of the system of equations.

8.  $\begin{cases} 3x + 2y = 2 \\ x - 7y = -30 \end{cases}$

Substituting the values of the variables:

$$3(-2) + 2(4) = -6 + 8 = 2$$

$$(-2) - 7(4) = -2 - 28 = -30$$

Each equation is satisfied, so  $x = -2$ ,  $y = 4$ , or  $(-2, 4)$ , is a solution of the system of equations.

9.  $\begin{cases} 3x - 4y = 4 \\ \frac{1}{2}x - 3y = -\frac{1}{2} \end{cases}$

Substituting the values of the variables:

$$3(2) - 4\left(\frac{1}{2}\right) = 6 - 2 = 4$$

$$\frac{1}{2}(2) - 3\left(\frac{1}{2}\right) = 1 - \frac{3}{2} = -\frac{1}{2}$$

Each equation is satisfied, so  $x = 2$ ,  $y = \frac{1}{2}$ , or  $\left(2, \frac{1}{2}\right)$ , is a solution of the system of equations.

10.  $\begin{cases} 2x + \frac{1}{2}y = 0 \\ 3x - 4y = -\frac{19}{2} \end{cases}$

Substituting the values of the variables, we obtain:

$$2\left(-\frac{1}{2}\right) + \frac{1}{2}(2) = -1 + 1 = 0$$

$$3\left(-\frac{1}{2}\right) - 4(2) = -\frac{3}{2} - 8 = -\frac{19}{2}$$

Each equation is satisfied, so  $x = -\frac{1}{2}$ ,  $y = 2$ , or  $\left(-\frac{1}{2}, 2\right)$ , is a solution of the system of equations.

11.  $\begin{cases} x - y = 3 \\ \frac{1}{2}x + y = 3 \end{cases}$

Substituting the values of the variables, we obtain:

$$4 - 1 = 3$$

$$\frac{1}{2}(4) + 1 = 2 + 1 = 3$$

Each equation is satisfied, so  $x = 4$ ,  $y = 1$ , or  $(4, 1)$ , is a solution of the system of equations.

# Chapter Systems Of Equations And Inequalities

**Peterson, Wagner**



## Chapter Systems Of Equations And Inequalities:

*College Algebra* Henry Lewis Rietz, Arthur Robert Crathorne, 1919      **Mastering Mathematics** Richard Manning Smith, 1998 Providing solid tips for every stage of study Mastering Mathematics stresses the importance of a positive attitude and gives you the tools to succeed in your math course This practical guide will help you avoid mental blocks during math exams identify and improve your areas of weakness get the most out of class time study more effectively overcome a perceived low math ability be successful on math tests get back on track when you are feeling lost and much more

**Instructor's Guide to Accompany College Mathematics Through Applications** Peterson, Wagner, 1999-02

**Introductory and Intermediate Algebra** Margaret L. Lial, John Hornsby, Terry McGinnis, 2001-11 The Lial Hornsby developmental mathematics paperback series has helped thousands of students succeed in math In keeping with its proven track record this revision includes a sharp new design many new exercises and applications and several new features to enhance student learning Among the features added or revised include a new Study Skills Workbook a Diagnostic Pretest Chapter Openers Test Your Word Power Focus on Real Data Applications and increased use of the authors six step problem solving process      *Resources in Education*, 1975 Serves as an index to Eric reports microform      Elementary Intermediate

Algebra: Student Solutions Manual Michael Sullivan, 2006-06-28      **Student Solutions Guide** Ron Larson, Professor Ron Larson, 2003-12-31      *Student Solutions Manual for Gustafson and Frisk's Beginning and Intermediate Algebra* Michael G.

Welden, 1999      **Algebra, Its Structure and Applications** Donovan A. Johnson, 1967      **Algebra for College Students** Daniel L. Auvil, Relja Vulanovic, 1996      *Intermediate Algebra* Jack Barker, James Rogers, James Van Dyke, 1992 The book is a text that serves as a review of elementary algebra together with a study of the traditional topics of intermediate algebra It is designed for students at any level so that they can gain the skills necessary to fulfill competency requirements achieve adequate scores on placement exams for entrance to certain professional schools prepare for technical mathematics courses prepare for problem solving in applied courses and complete prerequisites for college algebra or business courses Pref

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