Glencoe algebra 1 chapter 7

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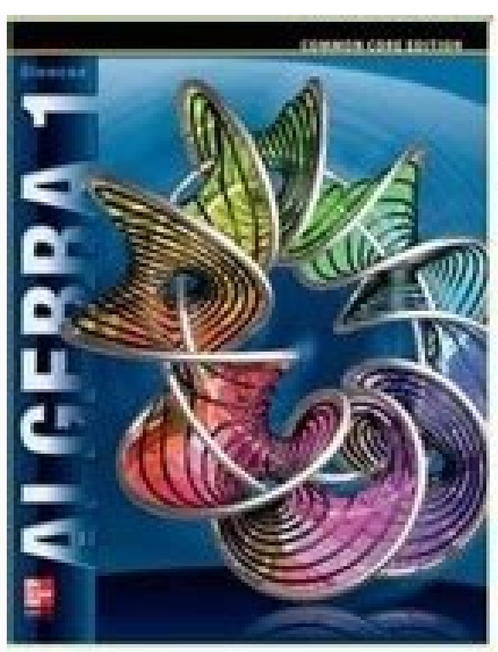

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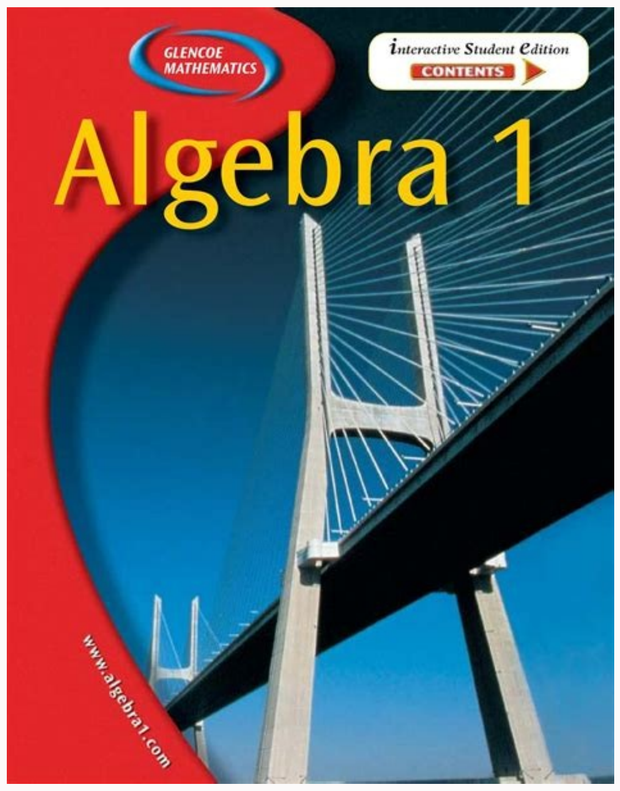
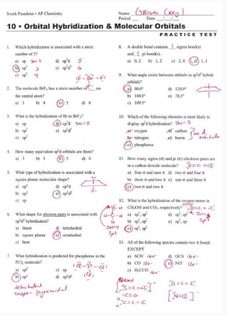




South Pasadena • AP Chemistry

Name Orbitals Packet Period Date

10 • Orbital Hybridization & Molecular Orbitals

PRACTICE TEST

1. Which hybridization is associated with a steric number of 3?
a. sp b. sp^3 c. sp^2 d. sp^3d

2. The molecule BrF_3 has a steric number of ___ on the central atom?
a. 3 b. 4 c. 5 d. 6

3. What is the hybridization of Br in BrF_3?
a. sp b. sp^2 c. sp^3 d. sp^3d e. sp^3d^2

4. How many equivalent sp^3d orbitals are there?
a. 3 b. 1 c. 5 d. 6

5. What type of hybridization is associated with a square planar molecular shape?
a. sp^2 b. sp^3 c. sp^3d d. sp^3d^2

6. What shape for electron pairs is associated with sp^3d hybridization?
a. linear b. tetrahedral c. square planar d. trigonal bipyramidal e. bent

7. What hybridization is predicted for phosphorus in the PCl_5 molecule?
a. sp^2 b. sp c. sp^3 d. sp^3d

8. A double bond contains ___ sigma bond(s) and ___ pi bond(s).
a. 0, 2 b. 1, 2 c. 2, 0 d. 1, 1

9. What angle exists between orbitals in sp^2 hybrid orbitals?
a. 90.0° b. 109.5° c. 120.0° d. 78.5°

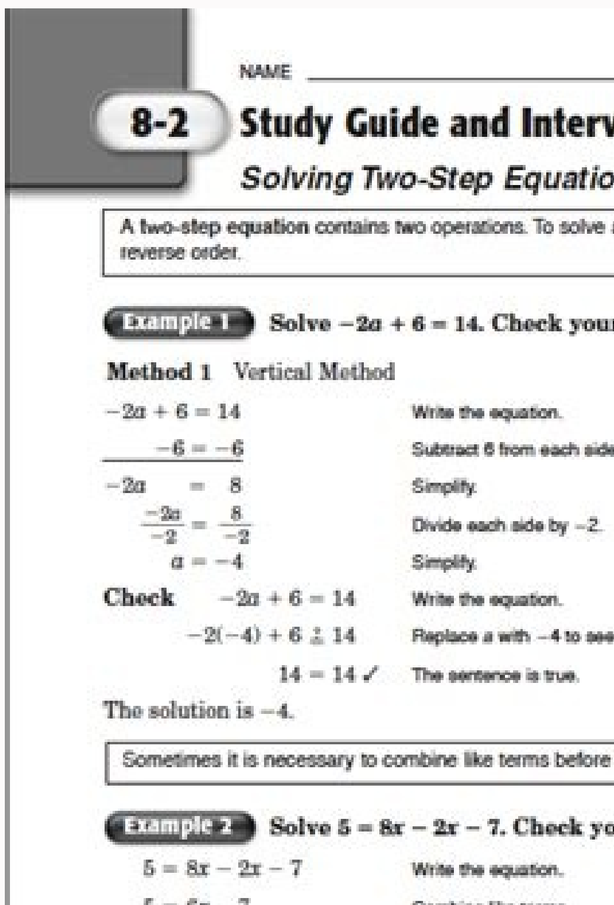
10. Which of the following elements is most likely to display sp^3d hybridization?
a. oxygen b. nitrogen c. phosphorus d. carbon e. boron

11. How many sigma (σ) and pi (π) electron pairs are in a carbon dioxide molecule?
a. four σ and zero π b. two σ and four π c. one σ and three π d. two σ and two π

12. What is the hybridization of the oxygen atoms in CH_3OH and CO_2, respectively?
a. sp^2, sp^2 b. sp^3, sp^3 c. sp^2, sp d. sp, sp^2 e. sp^3, sp

13. All of the following species contain two π bonds EXCEPT
a. SCN^- b. CO c. $HCOO^-$ d. OCS e. NO^+

Bonus!



NAME _____ DATE _____ PERIOD ____

8-2 Study Guide and Intervention

7AF4.1

Solving Two-Step Equations

A **two-step equation** contains two operations. To solve a two-step equation, undo each operation in reverse order.

Example 1 **Solve $-2a + 6 = 14$. Check your solution.**

Method 1 Vertical Method

$-2a + 6 = 14$	Write the equation.
$-6 = -6$	Subtract 6 from each side.
$-2a = 8$	Simplify.
$\frac{-2a}{-2} = \frac{8}{-2}$	Divide each side by -2.
$a = -4$	Simplify.

Method 2 Horizontal Method

$-2a + 6 = 14$	
$-2a + 6 - 6 = 14 - 6$	
$-2a = 8$	
$\frac{-2a}{-2} = \frac{8}{-2}$	
$a = -4$	

Check

$-2a + 6 = 14$	Write the equation.
$-2(-4) + 6 \stackrel{?}{=} 14$	Replace a with -4 to see if the sentence is true.
$14 = 14$ ✓	The sentence is true.

The solution is -4.

Sometimes it is necessary to combine like terms before solving an equation.

Example 2 **Solve $5 = 8x - 2x - 7$. Check your solution.**

$5 = 8x - 2x - 7$	Write the equation.
$5 = 6x - 7$	Combine like terms.
$5 + 7 = 6x - 7 + 7$	Add 7 to each side.
$12 = 6x$	Simplify.
$\frac{12}{6} = \frac{6x}{6}$	Divide each side by 6.
$2 = x$	Simplify.

The solution is 2. Check this solution.

Exercises

Solve each equation. Check your solution.

1. $2d + 7 = 9$
2. $11 = 3z + 5$
3. $2s - 4 = 6$
4. $-12 = 5r + 8$
5. $-6p - 3 = 9$
6. $-14 = 3x + x - 2$
7. $5c + 2 - 3c = 10$
8. $3 + 7n + 2n = 21$
9. $21 = 6r + 5 - 7r$
10. $8 - 5b = -7$
11. $-10 = 6 - 4m$
12. $-3t + 4 = 19$
13. $2 + \frac{a}{6} = 5$
14. $-\frac{1}{3}q - 7 = -3$
15. $4 - \frac{v}{5} = 0$

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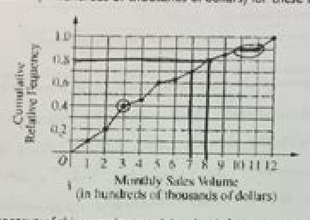
#2

A large regional real estate company keeps records of home sales for each of its sales agents. Each month, the company publishes the sales volume for each agent. Monthly sales volume is defined as the total sales price of all homes sold by the agent during a month. The figure below displays the cumulative relative frequency plot of the most recent monthly sales volume (in hundreds of thousands of dollars) for these agents.



(a) In the context of this question, explain what information is conveyed by the circled point.

A monthly sales volume of $300,000 is the 40th percentile. 40% of the agents sold less than $300,000 per month.

(b) What proportion of sales agents achieved monthly sales volumes between $700,000 and $800,000?

700,000 → .7
800,000 → .8
.8 − .7 = .10
About 10%

(c) For values between 10 and 11 on the horizontal axis, the cumulative relative frequency plot is flat. In the context of this question, explain what this means.

No agents sold between $1,000,000 and $1,100,000 per month

(d) A bonus is to be given to 20 percent of the sales agents. Those who achieved the highest monthly sales volume during the preceding month will receive a bonus. What is the minimum monthly sales volume an agent must have achieved to qualify for the bonus?

Top 20% → any agent who sold above $800,000 per month

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In this section, the student will learn different types of algebraic and variable expressions. However, the sequence of processes discussed in mathematics, true/false and open sentences, inverse identity and multiplication are also learned. A section has various features such as variable, relational, and decomposition properties. Also, this section covers various uses and types of graphics, conditional expressions in mathematics, logical expressions in mathematics, as well as the use of graphics and pictures for statistical analysis in mathematics. Some of the important things to learn in this section are numbers and rational numbers, subtraction and addition of rational numbers, division and effect of rational numbers, etc. However, you will develop an understanding of randomness and probability, statistical analysis and proof, and the sequence and square root of real numbers. This section will help you build a foundation for Real Numbers, Series 3All relevant works pages - Glencoe Algebra Part 1 7. Works pages 3 B1B2 Yes 2, Answer Key, Name of the Name B1B B1B Skill Practice, Balgebab B1B, B1B for Balgebab B1B Balgebab and Class Mathematics History 6 A25 048 01 873971 51906 B7B31 8 B1B, Part B7B Welding Mothers.*Click Open to open and print the worksheet. Algebra plays a very important role in mathematics. Therefore, it is accepted as the basis of mathematics. Geometry, calculations, trigonometry, etc., which form the whole foundation of mathematics. There are other issues. Algebra is one of the issues that each student should work intensively. This is Glencoe's algebra that appears in the photo. This book, written by Tata McGrav Mountain, consists of two parts: Glencoe AlgerBra 1 and Glencoe AlkeBra. It can help the student better understand the whole algebra. This textbook can help you fully understand any algebra. We will help you give you an overview of each episode in Glenko Algebra. At the same time, we give you what you can find in this special section. Chapter 1 in algebra is the first part of the Glenko algebra. In this section, the student will learn different types of algebraic and variable expressions. As a result, the sequence of action contained in mathematics, correct/false and discovered phrases, reverse and multiplier identity were discussed. This section also includes different features such as scrolling, associations and division properties. In addition, this section will learn various applications and graphics types, conditional explanations in mathematics, logical explanations in mathematics, and the use of graphics and tables for statistical analysis in mathematics. Part 2 Real Numbers This section gives you valuable information about the real numbers. Some of the most important things to learn in this section are sequences and rational numbers, the deprivation and number of rational numbers, the division and multiplication of rational numbers and so on. and probability, statistical analysis and demonstration, sequence of real numbers and square root. This section will help you lay the foundations of real numbers. DepartmentLinear Equations In this section, students will find basic algebra lessons for solving linear equations. You will learn to solve equations using subtraction, addition, division and multiplication. You will also develop a method for solving multi-level equations and word problems. You'll also learn discount and tax calculations, percent word problems, how to solve formulas and equations, distance formulas, and weighted averages. Chapter 4 Relationships and Function Graphs In this chapter, students will learn about the Cartesian coordinate system and coordinate planes. You will also learn about inverse relationships, translations and transformations of functions, and graphs of linear functions. In addition to inductive and deductive reasoning, this section also covers functional properties and arithmetic sequences. This section helps students create equations and identify them using patterns. Chapter 5 Analysis of Linear Equations In this chapter you will learn all the basic algebra lessons for analyzing linear equations. In this section you will learn more about slopes, especially zero and undefined slopes. Together with the students, they are introduced directly to variational equations, intersections with directions, linear equations in standard form, as well as scatter plots and correlations. You also get point slope and slope intercept equations. Learn about vertical and parallel lines in geometry. Chapter 6 Solving Linear Inequalities This chapter helps you solve inequalities by multiplication, addition, subtraction, and division. You will also learn how to solve various multilevel inequalities. This section also includes complex inequalities and mathematical quantities. Students learn absolute values in the form of equations and inequalities. This section also includes graphs of 1- and 2-variable equations. Chapter 7 Solving Linear Equations and Systems of Inequalities In this chapter, students learn basic algebra lessons about solving linear inequalities and systems of equations. There are also graphs for systems of equations. That's what we learn in this chapter. Students will also learn about solutions and substitutions of various systems of equations and related problems. You will also learn to destroy with multiplication. Also thisDue to various inequalities released in this section. Chapter 8 Polymers in the content of this chapter helps students learn the basics of algebra lessons on polynomials. This chapter discusses the diffusion and monor factors. This chapter introduces the five most important properties of exhibits and monomials. This section also discusses the simplification of phenomena and polynomial, square and binary. Students will also learn to strip, put and multiply polygraphs. The topics covered in this section are the main factor, various ways of finding the highest coefficient of the coefficient and solutions of quadratic equations. Students will also learn about squared differences and using the state of a distribution to define an multivariate expression. This section also contains factoring methods with various perfect squares. Chapter 10 square and exponential functions, in which the chapters discuss the basic algebra lesson on exponential and square functions. In addition, there are other topics such as fixation form, standard and vertex vertices, methods for filling squares, solving various quadratic equations that have been explored in this section. This section also contains various exponential functions and quadratic formulas. With this student, exponential growth and decline, geometric sequences and various formulas are of interest. Triangle. In this section, students will learn about various radical expressions. There are also simplified various expressions that contain square roots, and separation of radical expressions. In this chapter, you will also learn about the use and application of the Pythagoras theorem. This section discusses the different ways and identification of analogous triangles and different trigonometric terms. Chapter 12 Rational Expression and Equations in this chapter teaches students about reverse and direct change. In addition, you know about dividing, adding, subtracting, and reproducing a rational expression. You will also learn about the departmentMultiple filths that use long division and deal with complex factions. Chapter 13 Statistics This section will help students learn about basic algebra statistics. They will learn samples. They will also learn random and simple laminate samples. They also learn the same problems, matrix demonstrations and the action of the matrix. Chapter 14 is likely to be the last section of Glencoe 1 algebra, where students will learn the necessary algebra in terms of probability. The units discussed in this section are a factor, permutation, basic principles and the possibility of complex and simple events. They will also learn the frequency and possibility of a distribution. Probability CH 14 probability CH 14.1 probability CH 14.2 probability CH 14.3. Ch 14.4. On this page we will update more about books and mathematics. Please confirm your human identity to continue to use our site. Thank you very much for cooperation. 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