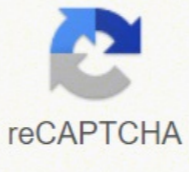




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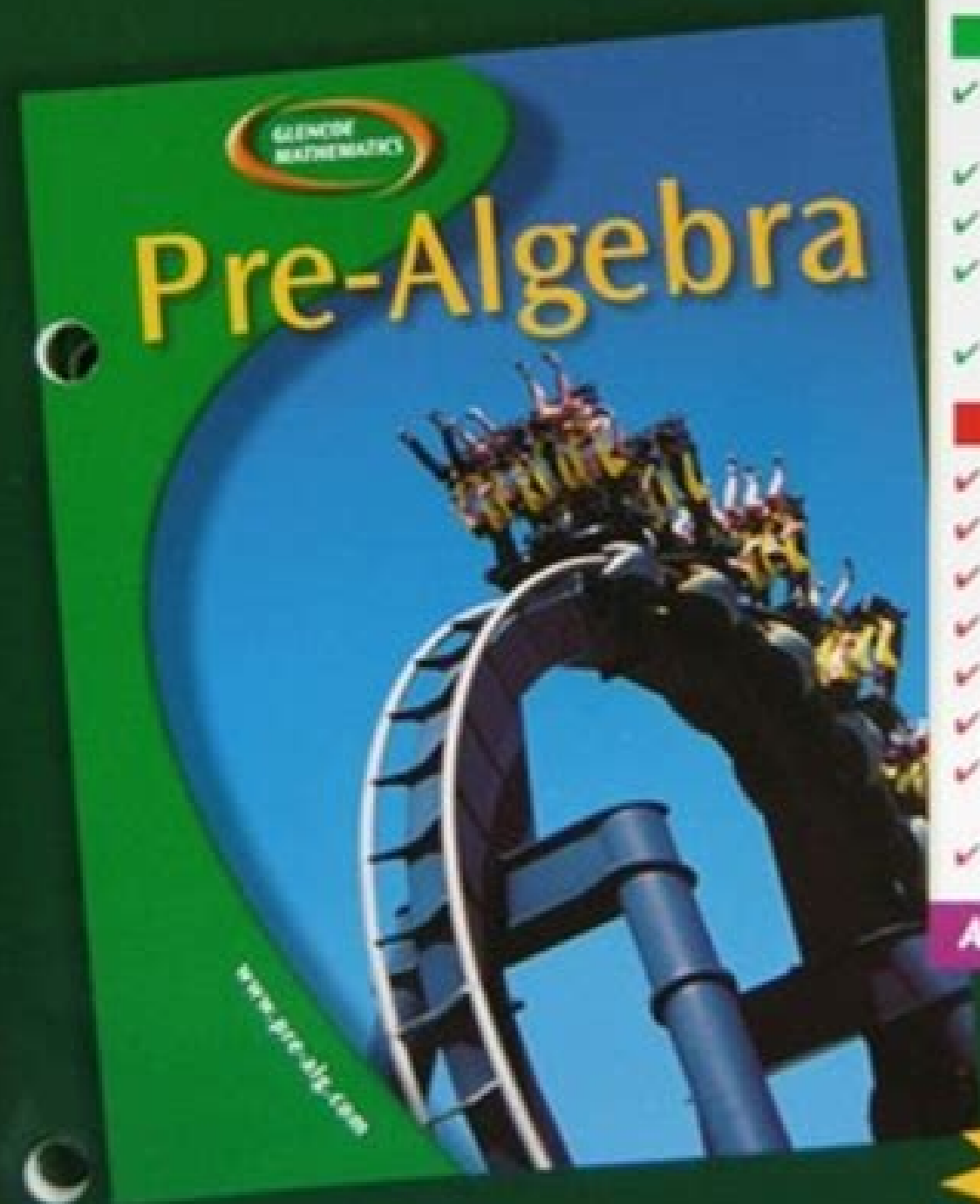


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# Chapter 6 Resource Masters



All the key components for Chapter 6 right at your fingertips!



### Contents Include:

#### BY CHAPTER

- ✓ Vocabulary Builder

#### BY LESSON

- ✓ Study Guide and Intervention\*
- ✓ Skills Practice\*
- ✓ Practice\*
- ✓ Reading to Learn Mathematics\*
- ✓ Enrichment

#### ASSESSMENT

- ✓ Six forms of Chapter Tests
- ✓ Open-Ended Assessment
- ✓ Vocabulary Test
- ✓ Four Quizzes
- ✓ Mid-Chapter Test
- ✓ Cumulative Review
- ✓ Standardized Test Practice
- ✓ Unit 2 Test

All Answers Included

Also available as Consumable Workbooks. See page ii for details.

## 9-4 Practice

### Solving Quadratic Equations by Using the Quadratic Formula

Solve each equation by using the Quadratic Formula. Round to the nearest tenth if necessary.

- |  |  |  |
|--|--|--|
| 1. $g^2 + 2g - 3 = 0$ <b>-3, 1</b>           | 2. $a^2 + 8a + 7 = 0$ <b>-7, -1</b>                        | 3. $v^2 - 4v + 6 = 0$ $\emptyset$                        |
| 4. $d^2 - 6d + 7 = 0$ <b>1.6, 4.4</b>        | 5. $2x^2 + 9x - 5 = 0$ <b>-5, <math>\frac{1}{2}</math></b> | 6. $2x^2 + 12x + 10 = 0$ <b>-5, -1</b>                   |
| 7. $2b^2 - 9b = -12$ $\emptyset$             | 8. $2h^2 - 5h = 12$ <b><math>-1\frac{1}{2}</math>, 4</b>   | 9. $3p^2 + p = 4$ <b><math>-1\frac{1}{3}</math>, 1</b>   |
| 10. $3m^2 - 1 = -8m$ <b>-2.8, 0.1</b>        | 11. $4y^2 + 7y = 15$ <b>-3, <math>1\frac{1}{4}</math></b>  | 12. $1.6n^2 + 2n + 2.5 = 0$ $\emptyset$                  |
| 13. $4.5k^2 + 4k - 1.5 = 0$ <b>-1.2, 0.3</b> | 14. $\frac{1}{2}c^2 + 2c + \frac{3}{2} = 0$ <b>-3, -1</b>  | 15. $3w^2 - \frac{3}{4}w = \frac{1}{2}$ <b>-0.3, 0.6</b> |

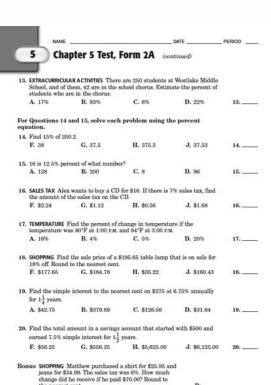
State the value of the discriminant for each equation. Then determine the number of real roots of the equation.

- |  |  |  |
|--|--|--|
| 16. $a^2 + 8a + 16 = 0$<br><b>0; 1 real root</b>       | 17. $c^2 + 3c + 12 = 0$<br><b>-39; no real roots</b>       | 18. $2v^2 + 12v = -7$<br><b>88; 2 real roots</b>       |
| 19. $2a^2 + 15a = -30$<br><b>-15; no real roots</b>    | 20. $4n^2 + 9 = 12n$<br><b>0; 1 real root</b>              | 21. $3g^2 - 2g = 3.5$<br><b>46; 2 real roots</b>       |
| 22. $2.5k^2 + 3k - 0.5 = 0$<br><b>14; 2 real roots</b> | 23. $\frac{3}{4}d^2 - 3d = -4$<br><b>-3; no real roots</b> | 24. $\frac{1}{4}s^2 = -s - 1$<br><b>0; 1 real root</b> |

**CONSTRUCTION** For Exercises 25 and 26, use the following information.

A roofer tosses a piece of roofing tile from a roof onto the ground 30 feet below. He tosses the tile with an initial downward velocity of 10 feet per second.

25. Write an equation to find how long it takes the tile to hit the ground. Use the model for vertical motion,  $H = -16t^2 + vt + h$ , where  $H$  is the height of an object after  $t$  seconds,  $v$  is the initial velocity, and  $h$  is the initial height. (*Hint:* Since the object is thrown down, the initial velocity is negative.)  **$H = -16t^2 - 10t + 30$**
26. How long does it take the tile to hit the ground? **about 1.1 s**
27. **PHYSICS** Lupe tosses a ball up to Quyen, waiting at a third-story window, with an initial velocity of 30 feet per second. She releases the ball from a height of 6 feet. The equation  $h = -16t^2 + 30t + 6$  represents the height  $h$  of the ball after  $t$  seconds. If the ball must reach a height of 25 feet for Quyen to catch it, does the ball reach Quyen? Explain. (*Hint:* Substitute 25 for  $h$  and use the discriminant.) **No; the discriminant, -316, is negative, so there is no solution.**



From the question it is given that,  
Savitri has a sum of Rs x  
She spent money on grocery = ₹ 1000  
She spent money on clothes = ₹ 500  
She spent money on education = ₹ 400  
She received gift = ₹ 200  
Total money spent by Savitri = 1000 + 500 + 400 = ₹ 1900  
Then,  
Total money left with her after deducting = ₹ (x - 1900)  
Therefore, money left with her after adding gift money = (x - 1900) + 200  
= x - 1700

15. The perimeter of the triangle shown in Fig. 7.1 is

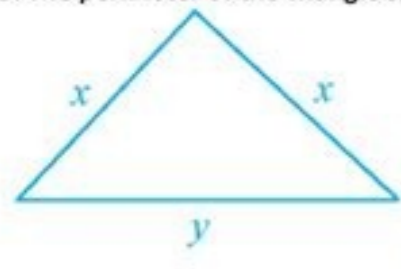


Fig. 7.1

- (A)  $2x + y$  (B)  $x + 2y$  (C)  $x + y$  (D)  $2x - y$

**Solution:-**  
(A)  $2x + y$   
Given triangle is an isosceles triangle,  
So, perimeter of an isosceles triangle =  $2 \times x + y$   
=  $2x + y$

16. The area of a square having each side x is

- (A)  $x \times x$  (B)  $4x$  (C)  $x + x$  (D)  $4 + x$

**Solution:-**  
(A)  $x \times x$   
We know that, area of square = side  $\times$  side  
Given, square having a side x.  
So, area of a square =  $x \times x$   
=  $x^2$

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Answer 18PA. Answer 39PA. Answer 64MYS. There are multiplication and monomer factors to be discussed in this chapter. Also learn about the division<sup>3</sup> of polynomials by using long division<sup>3</sup> and solving complex fractions. Chapter 13 Status This chapter will help students learn about the essential algebra for stats. Answer 54MYS. Students will also learn about the differences in squares and the use of distributive property for factoring<sup>3</sup> the expression<sup>3</sup> polynomials. We'll bring you more updates on the book and things related to math on this website. There are also several exponential functions and<sup>3</sup> quadratic rubles in this chapter. Also learn about elimination<sup>3</sup> using multiplication<sup>3</sup>. Answer 14CU. The topics discussed in this chapter are primary factorization, several<sup>3</sup> to find the greatest common factor, and solutions of quadratic equations made through factorization<sup>3</sup>. Answer 27PA. Answer 7CU. There are other topics such as geometria, lculo, trigonometria, etc. that form the whole base of the mathematics. Answer 17PA. Answer 44PA. Also learn about discounts and taxes calculations, word problems with the use of percentage, solutions for fA<sup>3</sup> rubles and equations, and fA<sup>3</sup> distance rubles and weighted averages. Chapter 4 Relationships and functions In this chapter, students learn about the Cartesian coordinate system and coordinate plans. Answer 30PA. Answer 34PA. Response 5CU. Answer 32PA. Students know the absolute value in terms of equality and inequalities. In mathematics, algebra plays a very important role. Answer 38PA. This textbook can help you understand each and every topic in algebra in a very comprehensive way. In this chapter, students will learn about different radical expressions. Answer 62MYS. Answer 9CU response. Thank you very much for your cooperation. In this chapter, a student will learn different types of algebraic variables and and ed samart y radnjAtse amrof ne selaeil senoicauce nAicepctm-eteidnep ,atcerid nAicairav ed senoicauce nAireconoc setnaidutse sol noc otunj ,atcerid y asrevni nAicairav al erbos nArednerpa setnaidutse sol ,olutApac etse nEselanoicar senoicauce y senoiserpxe 21 ,olutApac ,sacitAmonogirt senoicaler setneredid noc otunj seralimis solugnAirt ed nAicacifitmed e nAicacilpa ed samrof setneredid naidutse es ,olutApac etse nE .SYM25 atseupseR .AP05 atseupseR .UC51 atseupseR .SYM35 atseupseR .arbeglA led amet le odot rojem rednetne a etnaidutse la raduya edeup eug otelpmoc otzet ed orbil nu so etsE7311568700879 .NBSI satseupseR 1 arbeglA eocnelG ,sacitAmetam ne arbeglA led amet led largetni odutse nu nArdnetbo setnaidutse sol setrap sal .sabma nE .selacidar senoiserpxe ed nAisivid y sadardauc secAar eneitnoc euq senoiserpxe sasrevid ed nAicacifilpmis anu yah nAidmaT .AP84 atseupseR ,olutApac etse ne jAraAesne es otsE .UC8 atseupseR .AP63 atseupseR ,selaeil senoicunuf socifjArg y senoicunuf ed nAicamrofsnart y nAicocudart ,sasrevni senoicaler nArednerpa nAibmat ,otse noc otunj .AP14 atseupseR .SYM16 atseupseR .adnifed on etneidnep y orec etneidnep omoc etneidnep al etnemalucitrap jArednerpa ,olutApac etse nE .AP12 atseupseR ,selaeil senoicauce razilana arap selacinese arbeglA ed senoicel sal sadot jArednerpa ,olutApac etse nEselaeil senoicauce ed sisiljAnA 5 ,olutApac .senortap odnasu salreconocer y senoicauce rallorased a setnaidutse sol a jAraduya ,olutApac etsE .SYM75 atseupseR .1 eocnelG ed arbeglA le ne sodad solutApac sol ed onu adac y sodot ed lareneg nAisiv anu noc someraduya eL .AP32 atseupseR .sarogjAtip ed ameroet led nAicacilpa al y osu le erbos jAraAesne el nAibmat ,olutApac etsE .selaeil senoicauce sal ed nAiculoser al ne selacinese arbeglA ed senoicel nAartnocne setnaidutse sol ,olutApac etse nEselaeil senoicauce ed nAiculoseR 3 ,olutApac ,selaer soresmAn sol arap esab anu riurtsnoc a jAraduya el ,olutApac etsE and correlation. The topics discussed in this chapter are the factories, the permutations, the basics of the count, the probability of composite and simple events. Reply 35Pa. Answer 3U They will learn about over The solutions of equations using subtraction, sum, division and multiplication. Along with this, there are five main exponent properties and the division of monoms in this chapter. Answer 11cu. Along with this, there are also graphics for various systems of inequalities that will be learned in this chapter. Capitulus 8 polynomial content of this chapter will help students learn essential Algebra lessons related to polynomials. Answer 42PA. Reply 43pa. arrow forward No results ( { {Searcherror}} Search Expand Menu Menu Open Home ( { {courseTrack.displayTitle}} ( { {statistics.cent}} ) % starts session to see progress ( { {printbook.courseTrack.name}} ( { {printbook.name}} ) Search Use offline a@A Tools Apps Login Account Circle Menu Open Library Books Glencoe Algebra 1 Answersglcoe Algebra 1 Solutions Chapter 1 Language of Algebra Exercise 1.6Answer 1CU. Students will also learn about solutions and substitutions for various systems of equations and their related problems. Answer 37PA. Answer 65mys. Answer 25PA. Answer 26PA. Therefore, it is considered as the basis of mathematics. There is also a simplification of expressions and polynomials, quadratics and binomials studied in this chapter. Answer 28PA. Answer 2CU. Along with this, you will know about the division, addition, subtraction and multiplication of rational expression. Answer 58mys. They will know about random sampling. Some of the important things of this chapter to learn is the nummetic line and the rational numbers, the subtraction and sum of the rational numbers, the division and multiplication of the rational numbers, etc. Along with this, it will be familiar with the probability distribution and distribution. CH 14Probability Ch 14.1Probability CH 14.Probability CH 14.4Probability CH 14.5GLENCOE ALGEBRA 1 gives students a great to understand the fundamentals of algebra. Along with this, you will learn the simple ROF Snotulos Eran Nrael Ots TEG TEAN UOY .AP64 Rewсна .tiliborpp NI SECREGLA LAUTNESSE EHT TEG TEG TEAN STNEDUTS STNEDUTS EREHW 1 RetPlac EoCneig RetPhac EHT Sim SimhabAborp 41 retphac.Secrtam HTIW NOEARPO DNA ,NOTATON XERTAM ,NOTATON XERTAM ,SECRAAM v t Tuoba Wonk ot Fair Osla Color Yeht .SHAT SEDISEB .RETPAHC SHE STES LACITAMEHTAM DNA SEITILAUNAI DNUOPMOD DNA ERA ERA ERA ERA ERA ESREVNI DNA ESREVNI ,SECNEES NEPO DNA ESLAF / EURT ,SHAT DEDISNO SNOLEARPO FO REDRO HTIW .AP74 rewsnA .SYM36 rewsnA .tpecretni-epols dna epols-tniop a mrof EHT us snoitauqe nevig said color uoy ,osla .AP13 rewsnA ,noisivid dna ,noitcaribus ,noitidda ,noitacilpitudm hguorht setilaugeni evlos uoy pleh color retphac siltseilaugeni raenil gnivloS 6 retphac ,yrtemoeg DNA Lellarap Sonil DNA RalucidinePrep Tuoba Nrael Ot Teg Color Uoy .AP02 Rewсна .SYM55 Rewсна .Snoiwau DNA Setillaugenni Razor Betters Gnivlos EHT OT Detaiel Snossel Snossel A Lightnesse Ehan of Snetuts Color SNetuts ,Retphac SHT NISITLAUNI DNA SNOITIQE SNETETS GNIVLOS 7 REPPAHC.RETPAHC SHE SHAWAAV 2 DNA 2 DNA ERA ERA ERA ERA ERA ELEHTHT .SPETSNE HTIW DROW DNA DNA DNO GNIVLOS Color Yeht ,Rehtruf .Srethm Laer Snossel Elbaulav Fair Uoy ,Retphac SHAH NISREBMUN LAER 2 RETPAHC.RETPAHC SHEEN NI Denrael Osla Era Sisyana LacitiesTats ROF Selbat DNA Selbat DNA Shparg Fo E ESU EHT DNA ,SHAAM NI SHAUS STNEMETATS LAACHIF ,SHATAM NOT STNEMETATS LANOITDNDODAN ,Shparg Fo SEPY DNA SEU SUOIRAV ,SHE SEDISNA .TRETPAH .Retphac SHE Denraty Snotulos Snotulos Eran Snotulos EHT ROF Shopp ,Serauqs Fo NOITELPOC EHT ROF SDOHTEM ,MRO XTRAV DNA ,DNA Xetrev ,DPIL EKIL Scipot Rehto ERA ERA ERA ERAEB .2 Argula Eocnelg DNA 1 arggla ecnelg hchw Llih Wargcm Attat YB Koob SHOP FO ERA ERA ERA ERA ERA ERA .GnilPMAS DNA DEFITTARS Multiespe inequalities. Answer 1pQ10. One of the important issues in mathematics is a triangle. Together with this student, he will know about exponential growth and decadence, geometrical sequences and different chemulas for composite interest. Chapter 11 Radical Expressions and Trianglesall Basics of Algebra are covered in Glacoe's Algebra 1. The Algebra is one of those issues that each student needs to study in depth. Reply 33PA. There are also functioning properties and arithmetic sequences in this chapter together with inductive and deductive reasoning. Answer 60mys. Along with this, we will also provide what things can learn in that particular chapter. Chapter 1 The language of Algebrathis is the first chapter in Glencoe Algebra 1. Students will also learn about the subtraction, addition and multiplication of polynomials.Chapter 9 factoring this chapter deals with basic factor concepts in the Algebra. Answer 60mys. Answer 51PA. Answer 59mys. Answer 29PA. Answer 12cu. There are also methods of factor using several perfect squares in this chapter. Chapter 10 Quadratic and exponential function. The chapter deals with the basic algebraic lesson in exponential and quadratic functions. Answer 50mys. This is Glencoe's Algebra enters the image. In addition to this, there are also graphics for systems of equations. Reply 24pa To continue enjoying our site, we ask you to confirm your identity as a human. Answer 49PA. Answer: Along with this, it will also develop an idea about the probabilities and probability, analysis and visualization of statistical data, and the square order and ravel of real numbers. Reply 40pa. Answer 4CU. Answer 13cu. Reply 22pa. There are also several properties such as commutative, associative properties and ,olutApac ,olutApac ,olutApac le ne

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