
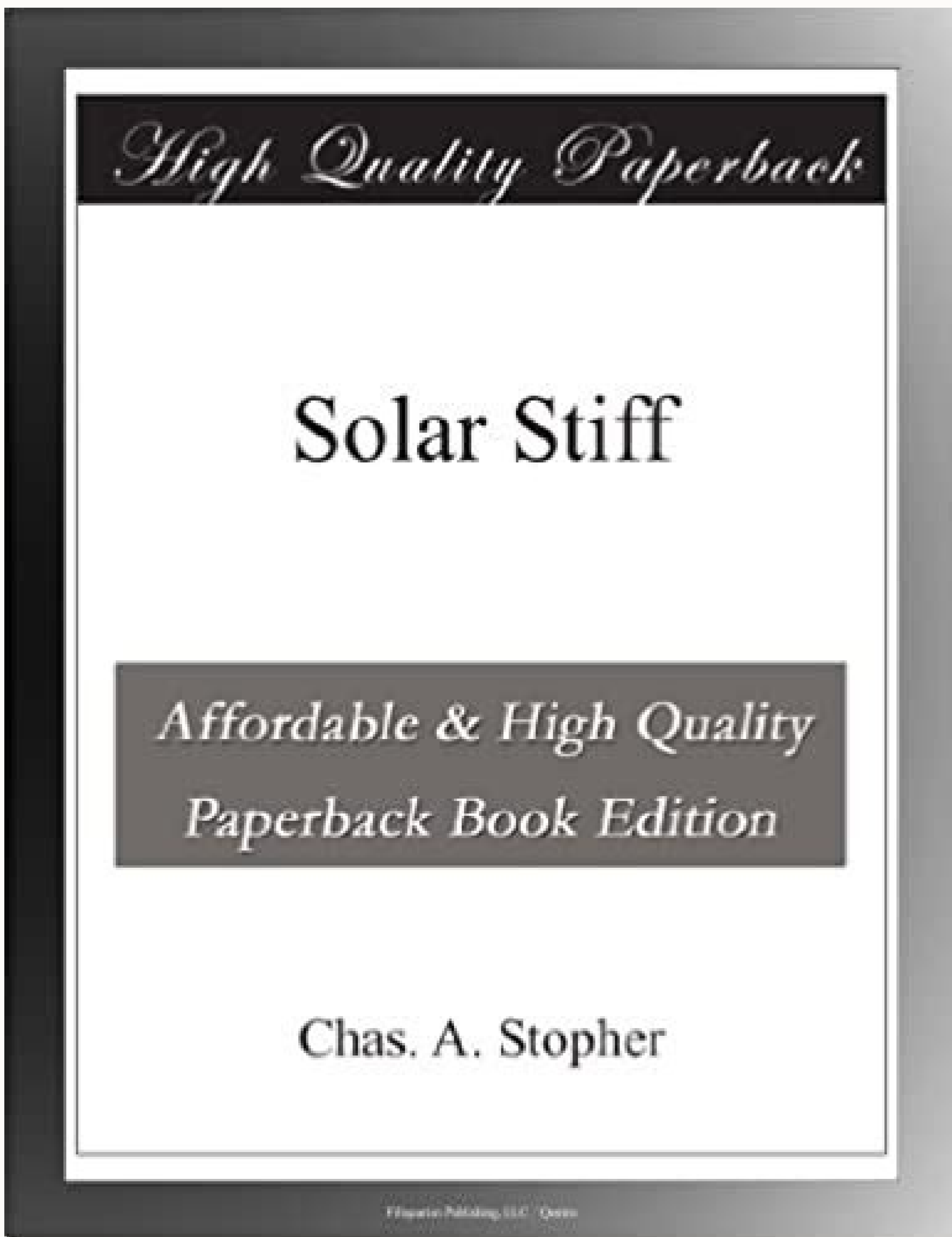
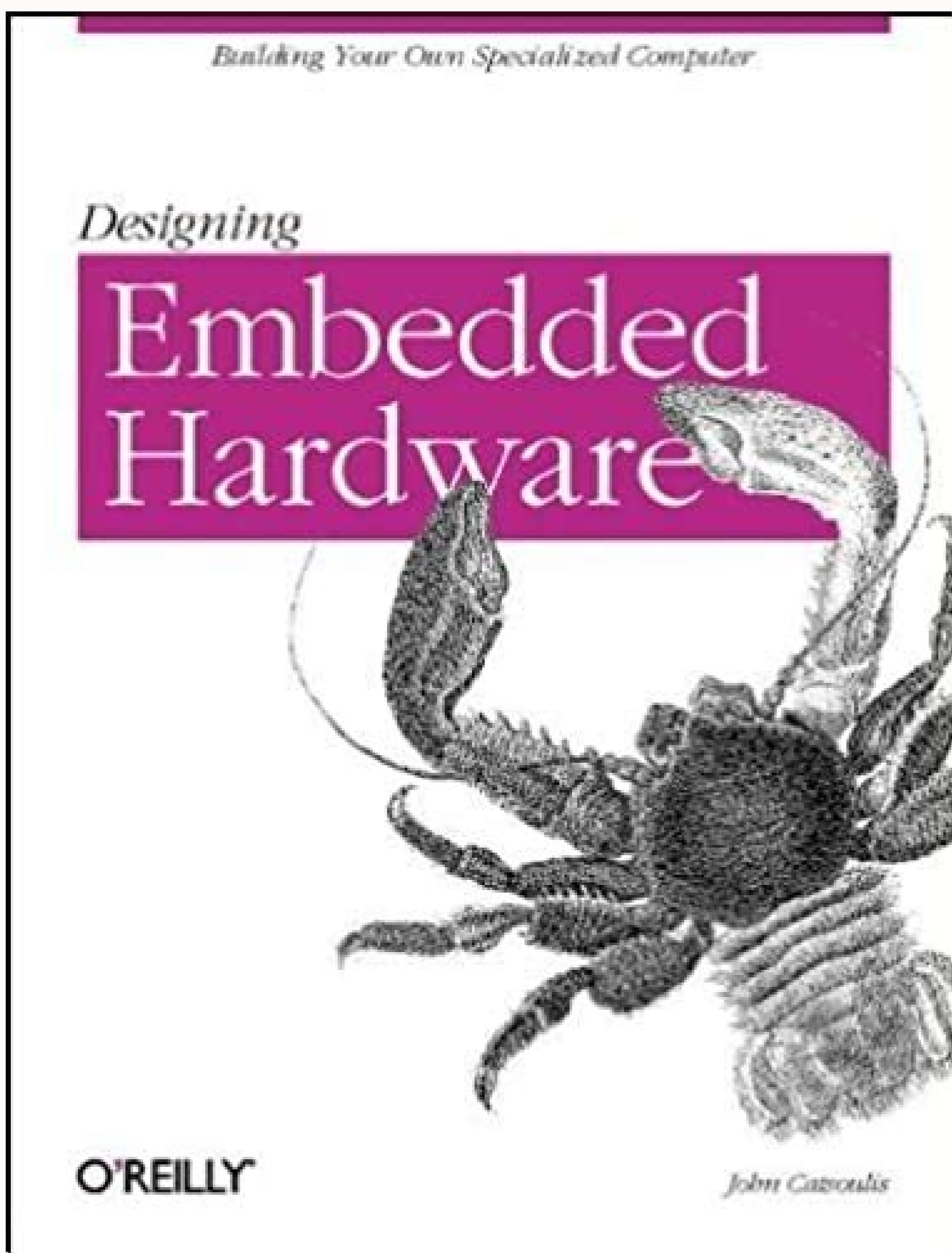


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(i)  $x+y$ (ii) 1000(iii)  $x+x^2+x^3+x^4$  (iv)  $7+a+5b$  (v)  $2b-3b^2$  (vi)  $2y-3y^2+4y^3$  (vii)  $5x-4y+3x$  (viii)  $4a-15a^2$  (ix)  $xy+yz+zt+tx$  (x)  $pqr$  (xi)  $p^2q+pq^2$  (xii)  $2p+2q$  Attempt 8th CBSE Exam Mock Tests Question 2: Find each of the following products:  $5x^2 \times 4x^3 - 3a^2 \times 4b^4$   $1/2xy \times 2/3x^2yz^2 - 7xy \times (1/4x^2yz)$   $2a^3(3a+5b) - 11y^2(3y+7)$   $xy(x^3-y^3)$   $0.1y(0.1x^5+0.1y)$   $4/3a(a^2+b^2-3c^2)$   $1.5x(10x^2y-100xy^2)$  Question 3: Multiply the monomial by the binomial and find the value of each for  $x = -1$ ,  $y = 0.25$  and  $z = 0.005$ :(i)  $15y^2(z-3x)(ii) -3x(y^2+z^2)(iii) z^2(x-y)(iv) xz(x^2+y^2)$  Question 4: Simplify: (i)  $2x^2(x^3-x) - 3x(x^4+2x) - 2(x^4-3x^2)(ii) x^3y(x^2-2x) + 2xy(x^3-x^4)(iii) 3a^2+2(a+b)^2 - 3a(2a+1)(iv) x(x+4) + 3x(2x-1) + 4x^2+4(v) ab-c - b(c-a) - c(a-b)$  Question 5: Using the formula for squaring a binomial, evaluate the following: (i)  $(102)^2(ii) (99)^2(iii) (1001)^2(iv) (999)^2(v) (703)^2$  Frequently Asked Questions on Class 8 Algebra Formula Here we have provided some of the frequently asked questions related to the formula of algebraic expression for Class 8. So, if we know the values to the left of an expression, we can deduce the result using the algebraic identity. These examples will help you memorise the Class 8 algebra formula we provided above.  $(a+b)^3 = a^3 + b^3 + 3ab(a+b)$ 6. Practice 8th CBSE Exam Questions 1) Find out the value of  $5^2 - 3^2$ . This section is a step-by-step presentation of how to use algebra formulae on all the topics covered in this site which include formulae on linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorization, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- Algebra Quizzes and Online Tests Algebra Quizzes Online linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorization, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- These quizzes range from multiple choice algebra quizzes, gap fill quizzes, matching exercises, hotspot quizzes with graphics and more for interactive algebra & pre-algebra practice.  $(x+a)(x+b) = x^2 + (a+b)x + ab$ 15.  $(a-b)^2 = a^2 - 2ab + b^2$ . Algebra is a broad part of Mathematics in which we study mathematical symbols and the rules for manipulating these symbols. 5) Simplify  $(a+b+c)(a+b-c)$ Solution: Using the algebraic expression:  $(x+a)(x+b) = xa + xb$ , we can simplify the equation as follows: $(a+b+c)(a+b-c) = a(a+b-c) + b(a+b-c) + c(a+b-c) = axa + axb - axc + bxa + bxb - bxc + cxa + cxb - cxc = a^2 + ab - ac + ba + b^2 - bc + ca + cb - c^2 = a^2 + b^2 - c^2 + 2ab$  Now that we have provided algebraic formulas for class 8 with examples let's practice some important questions related to algebraic formulas and expressions. A variable can take any position on the number line. There are different types of algebraic expressions depending on the number of terms they contain: Expressions containing one, two and three terms are called monomial, binomial and trinomial expressions. The numerical factor of a term is called its coefficient. An identity is standard equality which is true for all the values of the variables in the equality. List of Algebra Formulas for Class 8 Students who are looking for the complete list of maths formulas for class 8 PDF for algebra can refer to this article. Solve the free Class 8 Maths Questions and refer to these formulas when necessary. These worksheets contain pre-algebra & Algebra exercises suitable for preschool, kindergarten, first grade to eighth graders levels. Embibe wishes you all the best! Algebra Worksheets & Printables These worksheets are printable PDF exercises of the highest quality.  $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$ 8. Scroll down to read more. You can check the list in the table below: 1. Page 2 Algebra Worksheets & Printables These worksheets are printable PDF exercises of the highest quality. The following algebra topics are covered among others: linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorization, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- Worked Examples & Algebra Formulae This section contains worked examples of problems and vital algebra formulae that are needed through out the theme. Hence, the answer is 16. The value of the variable changes in different expressions while the constant remains the same. Important Points Regarding Algebraic Expressions Formulas a variable can take any value. Examples of Algebraic Expressions Formulas for Class 8 Understand different algebraic identities for Class 8 with examples provided below. As it is one of the most important units for CBSE Class 8, we have provided the complete list of important Math formulas for Class 8 Algebra on this page. Writing reinforces Maths learnt.  $a^2 - b^2 = (a-b)(a+b)$ 2. An algebraic expression contains two things - Variables and Constants. Web site General Content: This site is all about the following: Algebra exercises for children, Algebra & pre - algebra for kids, children, Algebra activities Online for children, Algebra games for kids, elementary algebra, first grade algebra, algebra games, worksheets, printables, exercises, free online exercises, free algebra downloads, printable PDF linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorization, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- math, printable Algebra exercises, Algebra worksheets, Pre - algebra worksheets, pre-algebra, Algebra for children, Algebra topics, Algebraic processes, algebra for kids, worksheets, printables on algebra, linear equations, polynomials, introduction to algebra, pythagoras theorem, quadratic equations, algebra online, algebra is fun, algebra printable games, algebra formulae & more Math Products: Math eBooks, Math Workbooks, Math Games CD Only on Math Workbooks, Math Games CD Only on Math for Children.  $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$ 9. It will prove to help make your journey a relatively easy one. This can be expressed as  $(a-b)^2$ , where  $a=100$ ,  $b=5$ .  $x(a+b) = xa + xb$ 10. Q5: What are the types of rules in Algebra?A: The types of rules in algebra are as follows:1. Other Important Expressions Q3: What is the difference between Algebra and Arithmetic?A: Algebra uses letters to represent either unknown or allowed to take on many values. Embibe provides a free Class 8 Algebra Mock Test that will help you prepare. 4) What is the value of  $x^2 + y^2 - 10$  at  $x = 0$  and  $y = 0$ ?Solution:  $x^2 + y^2 - 10$ , Putting  $x = 0$  and  $y = 0$  in the expression, we get:  $0^2 + 0^2 - 10 = 0 - 10 = -10$ Hence, the answer is -10. Q1: Why is Algebra considered important in Mathematics?A: Algebra is one of the most important branches of Mathematics, along with Number Theory, Geometry and Analysis. Practice 8th CBSE Exam Questions Now that we have provided all the important Algebra formulas, you should take mock tests on this chapter. Get a detailed Math formula chart for Class 8, including Trigonometry, Mensuration, Profit & Loss, Probability, and Exponents below: Algebraic Expression & Identities Class 8 Formulas An algebraic identity is an equality that holds for any values of variables. Laws of Exponent3. The concepts of Algebra are crucial to understanding the theory of Partial Differential Equations.  $(x+a)(x-b) = x^2 + (a-b)x - ab$ 14.  $(x-y)^2 = x^2 + y^2 + 2xy - 2xz$  Learn 8th CBSE Exam Concepts Almost all of the Class 8 Maths NCERT Solutions for algebra units can be done using these formulas. These worksheets contain pre-algebra & Algebra exercises suitable for preschool, kindergarten, first grade to eighth graders levels. Q2: What are the different components of the Algebra formulas and expressions?A: Algebra formulas and expressions can be divided into the following components:1. This section is a step-by-step presentation of how to use algebra formulae on all the topics covered in this site which include formulae on linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorisation, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- Algebra Quizzes and Online Tests Algebra Quizzes Online linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorisation, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- These quizzes range from multiple choice algebra quizzes, gap fill quizzes, matching exercises, hotspot quizzes with graphics and more for interactive algebra & pre-algebra practice. Q4: What does the word "algebra" mean?A: The word "algebra" has several related meanings in Mathematics. Commutative Rule of Addition 2. Commutative Rule of Multiplication 3. Associative Rule of Addition 4. Associative Rule of Multiplication 5. Distributive Rule of Multiplication.  $(a-b)^3 = a^3 - b^3 - 3ab(a-b)$ 7. Apart from that, algebra is crucial in physical systems such as movement and forces, heat transfers, etc.  $(a+b)^2 = a^2 + 2ab + b^2$ . Arithmetic consists of simple operations like division, multiplication, addition and subtraction, whereas Algebra is the Math of finding unknown values in an equation with the help of variables. Since  $(a-b)^2 = a^2 - 2ab + b^2$ , putting the values of  $a$  and  $b$  in this expression, we get:  $95^2 = (100-5)^2 = 100^2 - 2 \times 100 \times 5 + 5^2 = 10000 - 1000 + 25 = 9025$ . Hence, the answer is 9025. When used as a single word, it means "a broad part of mathematics". 3) Evaluate the value of  $(95)^2$  using identities.Solution:  $95^2$  can be written as  $(100-5)^2$ .  $x(a-b) = xa - xb$ 11.  $43 \times 42 = ?$ Solution:  $43 \times 42$  is of the form:  $(m)(n)$ , where  $a=4$ ,  $m=3$ , and  $n=2$ . The following algebra topics are covered among others: linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorisation, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- Workes Examples & Algebra Formulae This section contains worked examples of problems and vital algebra formulae that are needed through out the theme. Algebraic Identities2. Written By Prince Last Modified 16-05-2022 Algebra Formulas for Class 8: The compiled Algebra formulas and Algebraic identities here in this article will help all Class 8 students in their studies and final exams. It is very important to master using these formulae though some times presenting them in the most simplified manner is necessary for young learners. Website General Content: This site is all about the following: Algebra exercises for children, Algebra & pre - algebra for kids, children, Algebra activities Online for children, Algebra games for kids, elementary algebra, first grade algebra, algebra games, worksheets, printables, exercises, free online exercises, free algebra downloads, printable PDF linear equations, inequalities, decimals, fractions, exponents, graphing linear equations, binomial theorem, pythagoras theorem, quadratic equations, algebraic expressions, factorisation, ratios, geometry, integers, order operations, angles, simple equations, slope, arithmetic progression, LCM & HCF, coefficients, quadratic equations, square roots & more- math, printable Algebra exercises, Algebra worksheets, Pre - algebra worksheets, pre-algebra, Algebra for children, Algebra topics, Algebraic processes, algebra for kids, worksheets, printables on algebra, linear equations, polynomials, introduction to algebra, pythagoras theorem, fractions, algebra online, algebra is fun, algebra printable games, algebra formulae & more Math Products: Math eBooks, Math Workbooks, Math Games CD Only on Math for Children.  $(x-a)(x+b) = x^2 + (b-a)x - ab$ 13. Solution:  $5^2 - 3^2$  is of the form:  $a^2 - b^2$ , where  $a=5$ ,  $b=3$ . Since  $a^2 - b^2 = (a+b)(a-b)$ , putting the values of  $a$  and  $b$  in this expression, we get:  $5^2 - 3^2 = (5+3)(5-3) = 8 \times 2 = 16$ .  $(x-a)(x-b) = x^2 - (a+b)x + ab$ 12.  $a^2 + b^2 = (a+b)^2 - 2ab$ . Question 1: Classify the following polynomials as monomials, binomials, and trinomials. Algebraic identities for Class 8 and algebraic expressions are introduced in the CBSE curriculum. Which polynomials do not fit in any category? Quadratic Equations 4.  $(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$ 16. Since  $(m)(n) = m \times n$ , putting the values of  $a$  and  $b$  in this expression, we get:  $43 \times 42 = 43 \times 42 = 43 \times 42 = 1806$ . Hence, the answer is 1806. These questions will brush up your concepts and help you memorise the algebra formula we provided above. Different symbols and letters are used to represent quantities and numbers. - for first grade, second grade, third grade, fourth grade, fifth grade sixth grade and eighth grade. Algebra can also be used with qualifiers like linear algebra, elementary algebra, modern algebra, etc. Algebra has many real-life applications in mathematics, science, engineering, medicine, and economics. On the other hand, Arithmetic is all about computing specific numbers. The value of expression changes with the value chosen for its variables. A line has an infinite number of points. Practice Questions on Formula of Algebra Class 8 Here we have provided some practise questions on the Algebra chapter for CBSE Class 8. If you have any queries, feel free to ask in the comment section below, and we will get back to you.

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