

EVALUATING ALGEBRAIC EXPRESSIONS

To evaluate an algebraic expression, replace each variable with its given value, and then perform the operation(s). Be sure to follow the order of operations.

Here is how to evaluate the following expressions:

$$4m + 3 \text{ when } m = 7$$

$$\begin{aligned} &4m + 3 \\ &= 4(7) + 3 \\ &= 28 + 3 \\ &= 31 \end{aligned}$$

$$7r^2 + 9r \text{ when } r = -5$$

$$\begin{aligned} &7r^2 + 9r \\ &= 7(-5)^2 + 9(-5) \\ &= 7(25) - 45 \\ &= 175 - 45 \\ &= 130 \end{aligned}$$

$$(2p)^3 \text{ when } p = -1$$

$$\begin{aligned} &(2p)^3 \\ &= (2(-1))^3 \\ &= (-2)^3 \\ &= -8 \end{aligned}$$

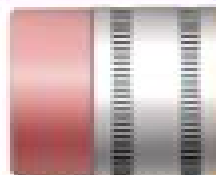
$$6x - y \text{ when } x = 8 \text{ and } y = -12$$

$$\begin{aligned} &6x - y \\ &= 6(8) - (-12) \\ &= 48 + 12 \\ &= 60 \end{aligned}$$

$$y + x[6 + (4 - x)^2]$$

when $x = 2$ and $y = -3$

$$\begin{aligned} &y + x[6 + (4 - x)^2] \\ &= -3 + 2[6 + (4 - 2)^2] \\ &= -3 + 2[6 + (2)^2] \\ &= -3 + 2[6 + 4] \\ &= -3 + 2[10] \\ &= -3 + 20 \\ &= 17 \end{aligned}$$



If a problem contains several kinds of grouping symbols, perform operations in parentheses (), then brackets [], then braces { }.



Algebraic Expression Examples And Answers

Arshad Iqbal



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Mathematical Creativity and Mathematical Giftedness

Florence Mihaela Singer, 2018-03-07 This book discusses the relationships between mathematical creativity and mathematical giftedness. It gathers the results of a literature review comprising all papers addressing mathematical creativity and giftedness presented at the International Congress on Mathematical Education (ICME) conferences since 2000. How can mathematical creativity contribute to children's balanced development? What are the characteristics of mathematical giftedness in early ages? What about these characteristics at university level? What teaching strategies can enhance creative learning? How can young children's mathematical promise be preserved and cultivated preparing them for a variety of professions? These are some of the questions addressed by this book. The book offers among others analyses of substantial learning environments that promote creativity in mathematics lessons, discussions of a variety of strategies for posing and solving problems, investigations of students' progress throughout their schooling and examinations of technological tools and virtual resources meant to enhance learning with understanding. Multiple perspectives in the interdisciplinary fields of mathematical creativity and giftedness are developed to offer a springboard for further research. The theoretical and empirical studies included in the book offer a valuable resource for researchers as well as for teachers of gifted students in specialized or inclusive settings at various levels of education.

The "Write" Way Mathematics Journal Prompts &

More, Algebra I, 2006

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Mary Jane Sterling, 2017-04-17 The grade-saving Algebra I companion with hundreds of additional practice problems online. Algebra I Workbook For Dummies is your solution to the Algebra brain block. With hundreds of practice and example problems mapped to the typical high school Algebra class, you'll crack the code in no time. Each problem includes a full explanation so you can see where you went wrong or right every step of the way. From fractions to FOIL and everything in between, this guide will help you grasp the fundamental concepts you'll use in every other math class you'll ever take. This new third edition includes access to an online test bank where you'll find bonus chapter quizzes to help you test your understanding and pinpoint areas in need of review. Whether you're preparing for an exam or seeking a start-to-finish study aid, this workbook is your ticket to acing algebra. Master basic operations and properties to solve any problem. Simplify expressions with confidence. Conquer factoring and wrestle equations into submission. Reinforce learning with online chapter quizzes. Algebra I is a fundamentally important class. What you learn here will follow you throughout Algebra II, Trigonometry, Calculus, and beyond, including Chemistry, Physics, Biology, and more. Practice really does make perfect, and this guide provides plenty of it. Study practice and score high.

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Maths in Action Tg 6a Em1/2 Swee Fong Ng, 2006

CliffsNotes Algebra I Practice Pack Mary Jane Sterling, 2010-02-08 Reviews algebra topics with problems and solutions throughout and includes a customized adaptable full length exam

Teaching Numeracy Margie Pearse, K. M. Walton, 2011-03-23 Do some of your students arrive at wildly wrong answers to mathematical problems but have no idea why If so they are not alone Many students lack basic numeracy the ability to think through the math logically solve problems and apply it outside of the classroom This book outlines nine critical thinking habits that foster numerate learning and details practical ways to incorporate those habits into instruction Referencing the new common core standards NCTM standards and established literacy practices the authors include How Can I Use This in My Math Class Tomorrow applications throughout the book which shows you how to Monitor and repair students understanding Guide students to recognize patterns Represent mathematics non linguistically Encourage questioning for understanding Develop students mathematics vocabulary Create a collaborative environment Latter chapters show how to develop numeracy rich lesson plans and provide several ready to use models with clear directions and student handouts The book s practices activities and problems will help you move your students from simply doing the math to a deeper understanding of how to think through the math

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