

ALGI - CHAPTER 2

INTEGERS: $-\infty \dots -2, -1, 0, 1, 2 \dots +\infty$ [NUMBERS WITH NO DECIMALS OR FRACTIONS]

OPPOSITE: CHANGE SIGN OF NUMBER [ex/ $-(5) = -5$]
[ex/ $-(-2) = 2$]
[TAKE OPPOSITE] [OPPOSITE OF -2 IS 2.]

ABSOLUTE VALUE: DISTANCE FROM ZERO (0)



TERMS: PARTS OF AN EXPRESSION ADDED TOGETHER

ex] $2x - 4x + 5 - 6$ HAS 4 TERMS: $2x, -4x, 5, -6$

DISTRIBUTE: ① $5(x+2) = 5 \cdot x + 5 \cdot 2 = 5x + 10$
② $3(x-5) = 3 \cdot x + 3 \cdot -5 = 3x + -15 = 3x - 15$
[NO! NO! + - IS SIGNIFY!]

COEFFICIENT: Number before variable

- EXAMPLES
- ① $-5x \rightarrow \text{COEF} = -5$
 - ② $x \rightarrow \text{COEF} = 1$
 - ③ $-x \rightarrow \text{COEF} = -1$

COMBINE LIKE TERMS:

ex] $5x + 4 + 3x + 6 = 8x + 10$
• ADD VARIABLE TERMS
• ADD NUMBERS

Algebra Connections Answer Key

Monica Neagoy



Algebra Connections Answer Key:

Algebra Connections Book Leiva, Miriam A. Leiva, 1996 **Algebra 1** Ron Larson, Timothy D. Kanold, Lee Stiff, 1997 An algebra textbook for students in grades 9-12 *Mathematics* Wilkie Collins, William Collins, 1995 **El-Hi Textbooks and Serials in Print**, 2006 **El-Hi Textbooks & Serials in Print, 2003**, 2003 *El-Hi Textbooks & Serials in Print, 2005*, 2005 **Glencoe Algebra 1**, 2001 **Planting the Seeds of Algebra, PreK-2** Monica Neagoy, 2012-04-20 The subject of algebra has always been important in American secondary mathematics education. However, algebra at the elementary level has been garnering increasing attention and importance over the past 15 years. There is consequently a dire need for ideas, suggestions, and models for how best to achieve pre-algebraic instruction in the elementary grades. *Planting the Seeds of Algebra* will empower teachers with theoretical and practical knowledge about both the content and pedagogy of such instruction and show them the different faces of algebra as it appears in the early grades. The book will walk teachers of young children through many examples of K-6 math lessons and unpack step by step the hidden connections to higher algebra. After reading this book, teachers will be better equipped. **Complete Fractions Skills, Grades 1 - 2**, 2012-10-22 Fractions are an integral part of everyday life. We work with fractions while planning, shopping, buying, cooking, and much more. This book is your resource for solving fraction woes in the classroom. Hands-on activities make learning about fractions fun and authentic. Support the activities with manipulatives to allow students to learn kinesthetically and visually, connecting abstract concepts to real-life situations. A pretest and post test is included along with practice worksheets across the math curriculum and a skill-specific trouble-shooting guide. Reproducible. **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R. R. Bowker Publishing, 1996-09

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web chapter 2 pressure and fluid statics pressure for a static fluid the only stress is the normal stress since by definition a fluid subjected to a shear stress must deform and undergo motion normal stresses are referred to as pressure p for the general case the stress on a fluid element or at a point is a tensor for a static fluid

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web a water manometer used to measure pressure in the spinal fluid the height of the fluid in the manometer is measured relative to the spinal column and the manometer is open to the atmosphere the measured pressure will be considerably greater if the person sits up solution a 13 6 m water b 76 5 cm water 115

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web describe the characteristics of flow calculate flow rate describe the relationship between flow rate and velocity explain the consequences of the equation of continuity to the conservation of mass the first part of this chapter dealt with fluid statics the study of

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web what exactly is a fluid can we understand fluids with the laws already presented or will new laws emerge from their study the physical characteristics of static or stationary fluids and some of the laws that govern their behavior are the topics of this chapter

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web some points to remember when solving fluid pressure problems the pressure due to the fluid always acts perpendicular the surface a particle underwater will feel the same pressure from all directions pressure increases linearly with depth $p = \rho gh$ $p = \rho gh$ assumes a constant density and thus is valid only for incompressible

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web these concepts are key to the solution of problems in fluid statics and lead to the following two points at the same depth in a static fluid have the same pressure the orientation of a surface has no bearing on the pressure at a point in a static fluid vertical depth is a key dimension in determining pressure change in a static fluid

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