

ALGEBRA 1 PART 2 TEST #1**CHAPTERS 1–3**

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1. Evaluate the expression $\frac{15}{b}$ when $b = 3$. (2)

$$\frac{15}{3} = 5$$

2. Evaluate the expression $(m + b)^2$ when $b = 3$ and $m = 4$. (3)

$$(4 + 3)^2 = 7^2 = 49$$

3. Evaluate the expression $10m + (b - 2)^4$ when $b = 3$ and $m = 4$. (4)

$$10(4) + (3 - 2)^4 = 40 - 1^4 = 39$$

4. Find the distance traveled if an athlete runs at 8 feet per second for 5 seconds. Remember that distance equals rate times time ($d = rt$). (4)

$$8 \cdot 5 = 40. \text{ The athlete runs 40 feet.}$$

5. Write the expression in exponential form: five to the fourth power. (3)

$$5^4$$

6. Is $a = 5$ a solution to $a^2 + 2 = 27$? Justify your answer. (3)

$$5^2 + 2 = 25 + 2 = 27. \text{ Yes, this is a solution.}$$

7. Is $b = 8$ a solution to $3b - 24 > 0$? Justify your answer. (3)

$$3(8) - 24 = 24 - 24 = 0, \text{ which is not greater than zero! This is not a solution.}$$

**Write each of the following sentences as an equation or inequality.
Use x for the variable in each.**

8. The product of 13 and a number is greater than 60. (4)

$$13x > 60$$

9. The sum of 20 and a number is 30. (4)

Algebra 1 Part 1 Chapters 1 3 Alegbra I

Huishi Li



Algebra 1 Part 1 Chapters 1 3 Algebra I:

Gröbner Bases in Ring Theory Huishi Li, 2012 This monograph strives to introduce a solid foundation on the usage of Gröbner bases in ring theory by focusing on noncommutative associative algebras defined by relations over a field K . It also reveals the intrinsic structural properties of Gröbner bases, presents a constructive PBW theory in a quite extensive context, and along the routes built via the PBW theory, the book demonstrates novel methods of using Gröbner bases in determining and recognizing many more structural properties of algebras such as the Gelfand-Kirillov dimension, Noetherianity, semi-primeness, PI property, finiteness of global homological dimension, Hilbert series, non-homogeneous Poincaré-Koszulity, PBW deformation, and regular central extension. With a self-contained and constructive Gröbner basis theory for algebras with a skew-multiplicative K -basis, numerous illuminating examples are constructed in the book for illustrating and extending the topics studied. Moreover, perspectives of further study on the topics are prompted at appropriate points. This book can be of considerable interest to researchers and graduate students in computational computer algebra, computational noncommutative algebraic geometry, especially for those working on the structure theory of rings, algebras, and their modules and representations.

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