

Chapter 6 Review Questions



Studying for a chapter examination is a personal process, one which nobody else can do for you. Simply take the time to review what you have done. Here are the new terms in Chapter 6.

Addition property [6.4]	FOIL [6.1]	Quotient [6.6]
Addition property of inequality [6.5]	Inequality [6.5]	Rate [6.8]
Algebra [6.1]	Inequality symbols [6.5]	Ratio [6.7]
Base [6.8]	Like terms [6.1]	Replication [6.3]
Binomial [6.1]	Linear [6.1]	Root [6.4]
Binomial theorem [6.1]	Linear equation [6.4]	Satisfy [6.4]
Cell [6.3]	Monomial [6.1]	Similar terms [6.1]
Common factor [6.2]	Multiplication property [6.4]	Simplify [6.1]
Comparison property [6.5]	Multiplication property of inequality [6.5]	Solution [6.4]
Completely factored [6.2]	Multiplicity [6.4]	Solve a proportion [6.7]
Consecutive integers [6.6]	Numerical coefficient [6.1]	Solve an equation [6.4]
Degree [6.1]	Percent [6.8]	Solve an inequality [6.5]
Difference [6.6]	Percentage [6.8]	Spreadsheet [6.3]
Difference of squares [6.2]	Percent problem [6.8]	Substitution [6.6]
Division property [6.4]	Polynomial [6.1]	Subtraction property [6.4]
Equation [6.4]	Product [6.6]	Sum [6.6]
Equation properties [6.4]	Property of proportions [6.7]	Symmetric property of equality [6.4]
Equivalent equations [6.4]	Property of substitution [6.6]	Term [6.1]
Evaluate an expression [6.3]	Proportion [6.7]	Translate [6.6]
Evolve [6.6]	Quadratic [6.1]	Trinomial [6.1]
Expand [6.1]	Quadratic equation [6.4]	Zero-product rule [6.4]
Factor [6.2]	Quadratic formula [6.4]	

If you can describe the term, read on to the next one; if you cannot, then look it up in the text (the section number is shown in brackets). Next, review the types of problems in Chapter 6.

TYPES OF PROBLEMS

Simplify an algebraic expression. [6.1]

Multiply binomials mentally. [6.1]

Expand a binomial using the binomial theorem. [6.1]

Factor a polynomial. [6.2]

Evaluate an algebraic expression. [6.3]

Write spreadsheet expressions in ordinary algebraic notation. [6.3]

Use a spreadsheet to evaluate (including the replicate command). [6.3]

Use binomials to answer genetic applications. [6.3]

Solve equations (both linear and quadratic). [6.4]

Use a calculator to solve an equation. [6.4]

Solve linear inequalities. [6.5]

Solve applied problems; in particular, those involving number, distance, and Pythagorean relationships. [6.6]

Set up and simplify ratios. [6.7]

Compare the size of fractions, decimals, and radicals. [6.7]

Solve proportion problems. [6.7]

Be able to change forms: fractions/decimals/percents. [6.8]

Estimate percents. [6.8]

Solve applied percent problems. [6.8]

Use problem-solving methods to answer uncategorized questions. [6.9]

Once again, see if you can verbalize (to yourself) how to do each of the listed types of problems.

Work all of Chapter 6 Review Questions (whether they are assigned or not). Work through all of the problems before looking at the answers, and *then* correct each of the problems. The entire solution is shown in the answer section at the back of the text. If you worked the problem correctly, move on to the next problem, but if you did not work it correctly (or you did not know what to do), look back in the chapter to study the procedure, or ask your instructor.

Finally, go back over the homework problems you have been assigned. If you worked a problem correctly, move on the next problem, but if you missed it on your homework, then you should look back in the book or talk to your instructor about how to work the problem.

If you follow these steps, you should be successful with your review of this chapter.