

ALGEBRA I (Prentice Hall)

<http://www.howe-two.com>

CHAPTER 1: TOOLS OF ALGEBRA

INTRODUCTION TO DATA (*mean, median, mode, line of best fit*)
PATTERNS (Find the missing number)
ADDING & SUBTRACTING SIGNED NUMBERS
MULTIPLYING SIGNED NUMBERS
NUMBER TIES (tie.exe) (add, multiply, divide)
s-ASTEROIDS (mixed practice)
PUT NUMBERS IN THEIR PLACE Real number system
NUMBER ORDER (<, > or =)
EVALUATING EXPRESSIONS Quiz
TRANSLATING EXPRESSION
ALICE'S DATA
CIRCLE AND BAR GRAPHS
FIND THE RULE
PROPERTIES
PROBABILITY
PROBABILITY WITH DICE combined with Excel worksheet
COIN FLIP multiple trials-graph
MARBLE PROBABILITY
LEARN probability with VENN
MATRICES size, elements, and adding

CHAPTER 2: FUNCTIONS AND THEIR GRAPHS

POINTS AND QUADRANTS
DOMAIN AND RANGE
DISTANCE AND MIDPOINT
INTRODUCTION TO DATA (*mean, median, mode, line of best fit*)
RELATIONS AND FUNCTIONS
FUNCTION NOTATION
FAMILIES OF FUNCTIONS lines/absolute value/ quadratic
PROBABILITY (see chapter one for options)
ALICE'S DATA
COUNTING??

CHAPTER 3: ALGEBRAIC CONCEPTS AND SIMPLE EQUATIONS

TWO STEP EQUATIONS a_quiz1e.exe; quiz1.exe
EZMATHO I,
MATHO (linear)
MARBLE PROBABILITY (level 2) (urn_prob.exe) replacement/non-replacement
PERCENT (easy) (profcint.exe)
PERCENT (challenging word problems pencil/paper needed) (percent.exe)
COMBINE LIKE TERMS

CAPTER 4: EQUATIONS AND INEQUALITIES

PROPORTIONS (Patterns & Problems)(more Percent problems --see chpt 3)
LEARN TO SOLVE
LINEAR MATHO
ABSOLUTE VALUE EQUATIONS (number line) & Solve
INEQUALITIES (Solve & graph on number line)
ABSOLUTE VALUE INEQUALITIES: Patterns & solve

CHAPTER 5: GRAPHING AND WRITING LINEAR EQUATIONS

POINTS AND SLOPE (pt&slope.exe)
INTRODUCTION TO DATA (*mean, median, mode, line of best fit*) data.exe
LINEAR PATTERNS
GRAPHING with $y=mx+b$
TWO POINTS
GUESS A GRAPH (gsgraph.exe) TI-calculator downloads at web site
TWO WAYS OF GRAPHING (intercepts & $y=mx + b$)
DIRECT VARIATION
WRITE THE EQUATION
ALICE'S DATA

CHAPTER 6: SYSTEMS OF EQUATIONS AND INEQUALITIES

SOLVE SYSTEMS BY GRAPHING graph_1.exe (WORKSHEET PREPARED)
SOLVING SYSTEMS BY SUBSTITUTION
LINEAR PATTERNS(a dynamic look at lines) (can graph inequalities for linear programming)
SIMULTANEOUS EQUATIONS (elimination)

CHAPTER 7: QUADRATIC EQUATIONS AND FUNCTIONS

QUADRATIC EQUATIONS ($y=a(x-h)^2+k$)
INSTANT RECALL (prime factorization/perfect squares--like matho)
RADICALS
QUADRATIC MATHO
QUADRATIC FORMULA (step by step)

CHAPTER 8: EXPONENTS AND EXPONENTIAL FUNCTIONS

INTRO TO EXPONENTS
LAWS OF EXPONENTS
SCIENTIFIC NOTATION
A PENNY SAVED
EXPONENTIAL & LINEAR FUNCTIONS (exp.exe) (growth & decay)

CHAPTER 9: RIGHT TRIANGLES AND RADICAL EXPRESSIONS

PYTHAGOREAN TRIPLES & MORE
RIGHT TRI TRIG/ELEVATION
RADICAL EQUATIONS
DISTANCE & MIDPOINT
RADICALS

SOLVING RADICAL EQUATIONS

CHAPTER 10: POLYNOMIALS

COMBINING LIKE TERMS (TRINOMIALS)
FACTORIZING GCF (FACf_GCF)
MULTIPLYING BINOMIALS: $(ax+b)(cx+d)$
FACTORIZING TRINOMIALS $(ax^2 + bx + c)$
FACTORIZING BY GROUPING
QUADRATIC MATHO
s-FACTOR FIGHTER (two version)

CHAPTER 11: RATIONAL EXPRESSIONS AND FUNCTIONS

INVERSE VARIATION (direct & inverse)
RATIONAL FUNCTIONS
NAME THE FUNCTION FAMILY (*family.exe*)
COUNTING