

Heart of algebra

① Solving linear equations and linear inequalities

② Interpreting linear functions

③ Linear equation word problems

④ Linear inequality word problems

⑤ Graphing linear equations

⑥ Linear function word problems

⑦ Systems of linear inequalities word problems

⑧ Solving systems of linear equations

⑨ Systems of linear equations word problems

Passport to advanced mathematics

- (1) Solving quadratic equations
- (2) Interpreting nonlinear expressions
- (3) Quadratic and exponential word problems
- (4) Manipulating quadratic and exponential expressions
example
- (5) Radicals and rational exponents
- (6) Radical and rational equations
- (7) Operations with rational expressions
- (8) Operations with polynomials
- (9) Polynomial factors and graphs
- (10) Nonlinear equation graphs
- (11) Linear and quadratic systems
- (12) Structure in expressions
- (13) Isolating quantities
- (14) Function notation

Problem solving and data analysis

- (1) Ratios, rates, and proportions
- (2) Percents
- (3) Units
- (4) Table data
- (5) Scatterplots
- (6) Key features of graphs
- (7) Linear and exponential growth
- (8) Data inferences
- (9) Center, spread, and shape of distributions
- (10) Data collection and conclusions

Additional topics in math

- ① Volume word problems
 - ② Right triangle word problems
 - ③ Congruence and similarity
 - ④ Right triangle trigonometry
 - ⑤ Angles, arc lengths, and trig functions
 - ⑥ Circle theorems
 - ⑦ Circle equations
 - ⑧ Complex numbers
-