



Financial Algebra: Advanced Algebra with Financial Applications

Third Edition ©2026

Robert Gerver, Richard Sgroi

A perfect resource for 3rd or 4th-year alternative math courses

Financial Algebra offers high school students an opportunity to view the world of finance through a mathematical lens. The mathematical formulas, functions, and pictorial representations used assist students in making sense of the financial world around them and equip them with the ability to make sound financial decisions. The overarching purpose of the course is to develop mathematically proficient students who can apply mathematics to solve real world problems that arise at home, at school, in society, and in the workplace.

This new 3rd Edition of *Financial Algebra: Advanced Algebra with Financial Applications* includes:

- Updated technical content for currency and relevancy and to reflect the latest statistics, data, prices/fees, rates, tax tables and other finance-related data
- Financial content added to comply with state standards for finance courses:

50-30-20 Rule	credit limit	fraud protection
529 Plan	cryptocurrency	free checking
annuities	culp	account
annuity	deductibles	full warranty
automobile lease	doing business as	geometric solids
average indexed	(DBA)	high-yield interest
monthly earnings	effective tax rate	accounts
(AIME)	emergency fund	human resources
bankruptcy	encryption	(HR)
bend points	equiprobable	identity fraud
bitcoin	outcomes	identity theft
braking time	escrow	implied warranty
churning	express warranty	infinite arithmetic
commercial driver's	extended warranty	sequence
license	Federal Direct	inflation
consolidation	Consolidation	inheritance
contribution	Loan	Initial Public Offering
matching	finance charge	(IPO)
co-payments	finite arithmetic	interest-bearing
coupon rate	sequence	checking account

kilowatt hours per 100 miles (KWh/100)	origination fee	satoshi
lessee	par value	schedule D
lessor	peer to peer (P2P)	scholarships
lifeline checking account	per loan weigh factor	secured loans
limited warranty	perception time	Securities and Exchange Commission (SEC)
linear depreciation	perception-reaction time	securities industry
liquidity	placebo	split-adjusted share price
lump sum payment	planned obsolescence	streaming services
marginal tax rate	price-earnings ratio	student checking account
market basket	primary insurance amount (PIA)	time value of money
markup	promissory note	traditional checking account
Medicare Advantage plans	qualified educational costs	unsecured loans
miles per gallon equivalent (MPGe)	refinance	virtual assistant
mobile payment apps	rent-burdened	warranty
monthly compounding	retail price	warranty expiration date
mutual funds	retirement savings proportional withdrawal approach	weighted average wholesale price
no-load mutual funds	retirement savings traditional withdrawal approach	work from home (WFH)
online checking account		

- An increased emphasis on the concepts that drive math comprehension. These include:
 - Identifying both math and financial concepts that are addressed in each chapter as part of the Table of Contents
 - The addition of Learning Objectives that address the math and financial concepts that are covered in each lesson
 - The addition of assessment questions that evaluate student knowledge of the math and financial concepts introduced in each lesson. These question types assess student knowledge of the Learning Objectives and appear at the end of each lesson chapter reviews. These are in the Testbanks and in the digital solution as well.
- A combined English/Spanish Glossary/Glosario to support English Language Learners
- For teachers, a streamlined Companion Site that offers valuable resources and teaching tools, including:
 - New Guided Practice for Students
 - New Guide to Teaching Online