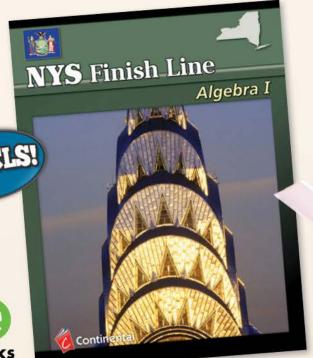
NYS Finish Line Algebra I





Grades 8-12

CONTENTS

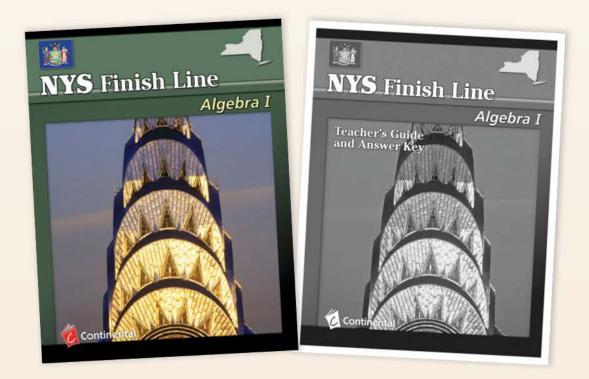
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O Pricing...



What does the book do?

NYS Finish Line Algebra I provides instruction and practice for the New York Common Core Learning Standards (CCLS) and prepares students for the Regents Algebra I (Common Core) exam. Components include a student workbook and a teacher's guide in print and eBook formats.





Grades 8–12

Standards Alignment

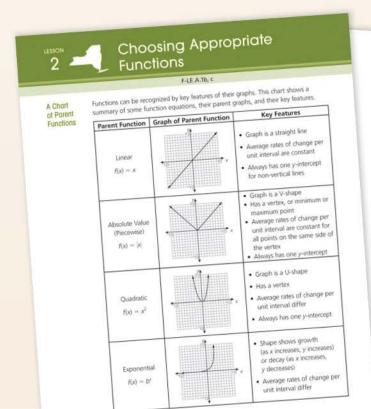
The content addresses all focus standards identified for the traditional Algebra I course assessed by the exam. The modules follow the same sequence as those identified for this course in the *NYS Common Core Mathematics Curriculum for Algebra I* as described by EngageNY.org. Each module is broken down into lessons that address one or more standards.

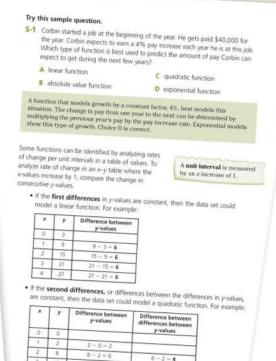




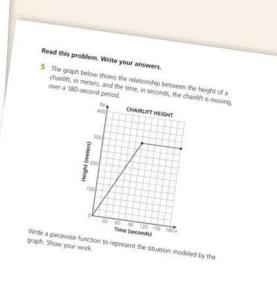
Rigorous Lessons

Rigorous content meets the demands of the standards and exam. Questions range in difficulty, with many Depth of Knowledge (DOK) levels 2 and higher.



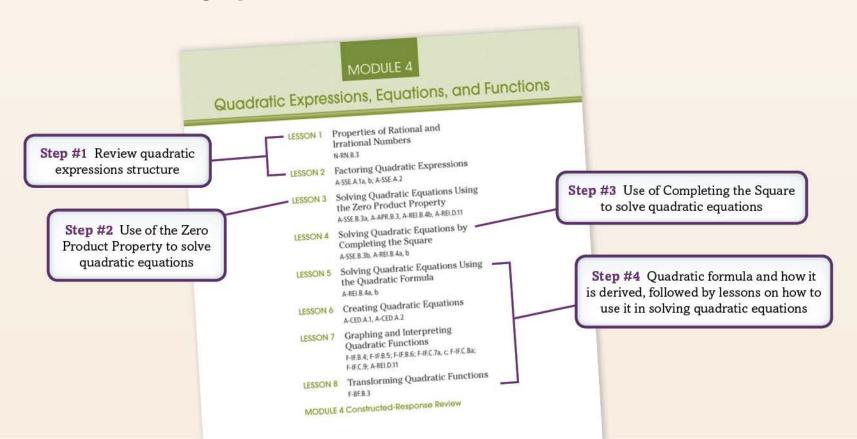


18 - 8 = 10



Skill Building

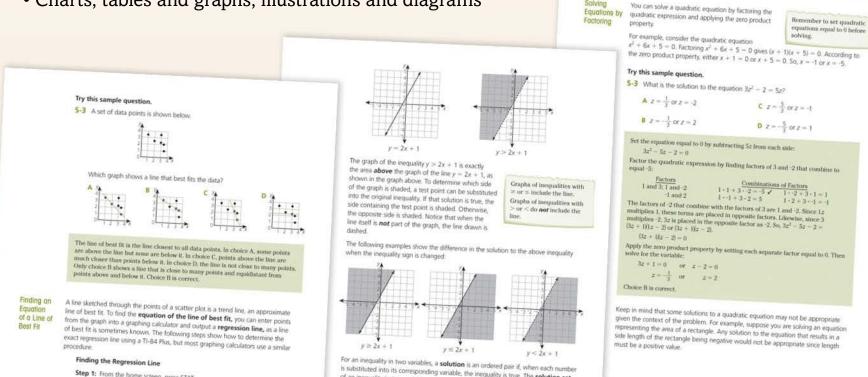
Topics that are often stumbling blocks for students are covered in detail, beginning with a careful explanation of fundamentals and building on those to an understanding of processes.



Learning Support

Features to support student comprehension:

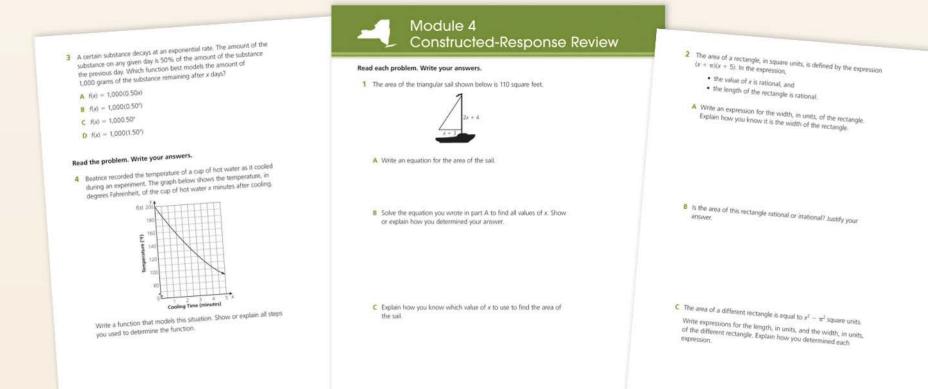
- Guided examples with insight into the topic and procedures for finding the answer
- Sidebar items with key terms and concepts
- Calculator instructions with important procedures
- Charts, tables and graphs, illustrations and diagrams



Solving

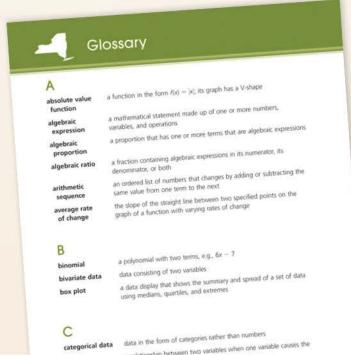
7

- Multiple-choice items and 2-, 4-, and 6-point constructed-response problems test multiple anchors.
- Module reviews can be used as practice tests.



Additional Resources

- The glossary includes terms that are boldfaced throughout the book and reflect the vocabulary identified by the NYSCC Mathematics Curriculum as important to know.
- A reference sheet includes many of the formulas that appear on the Regents test formula sheet.





भावताचा वर्ष

Teacher's Guide

- Suggestions for use
- NYS Common Core Learning Standards for Algebra I
- Reproducible formula reference sheet
- Answer key with
 - Standards alignment
 - Sample exemplary responses for constructed-response items
 - Error rationales for multiple-choice items
 - Scoring breakdown for constructedresponse items

Answer Key

Error rationales are provided for multiple-choice items. Sample exemplary responses are provided for constructed response (CR) items; students' answers for explanations will vary but should be similar to the given examples. The scoring breakdown for constructed response items is given. Note that answers must include requested units to receive credit.

Relationships Between Quantities and Reasoning with Equations

Lesson 1 Reasoning Quantitatively pp. 12-15

L. B (N-Q.A.I, A-CED.A.2)

A. does not realize graph shows speeding up, then driving at constant speed, then speeding up again

C. does not realize graph shows driving at constant speed, then slowing down, then speeding up

D. does not realize graph shows slowing down, then driving at constant speed, then speeding up

2. A [N-Q.A.1, N-Q.A.2, N-Q.A.3, A-CED.A.2]

A. correct

B. thinks graph curves upward,) greater values of P

C. thinks graph increases at a faresulting in greater values of D. thinks graph is linear instead exponential

3. A [N-Q.A.], N-Q.A.Z, A-CED.A.Z] Rationales

A. correct

B. does not realize horizontal li

at height of 3, imply no move C. forgets height of trampoline

D. does not realize none of the show height coming back de 4. 2-Pt CR [N-Q.A.I, N-Q.A.Z, A-CED.A.2] (I point graph, I point explanation):



The downward-sloped line aegments represent Miss Woods driving toward home. The horizontal line segments represent times when Miss Woods stops,

5. 2-Pt CR [N-Q.A.1, N-Q.A.2, N-Q.A.3, A-CED.A.2] A. (I point):

- 1	0	. 1	2	3
- 14	16-	10	-	
	12.0	-15	14	- 12

The change in temperature from one minute to the next is approximately 0.85 since $\frac{170}{200}$ 0.85 and $\frac{145}{170}$ = 0.85, So b = 0.85. The exponeutial function that models this situation is

Module 3 Constructed Response Review

I. 4-Pt CR [F-LEA2, F-IFC 7a, F-LEB5, F-IFB.4] A. (I point): C = 2.5n + 60



C. (I point): The y-intercept is 60. D. (I point): The y-intercept shows that it still costs money when no T-shirts are printed and that cost is \$60.

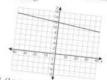
(FIEAT, FIEAZ, FBFAT, FLEAZ, FLERS)

A. (1 point): Yes, it does describe a function, because it passes the vertical line test, if you draw a vertical line anywhere on the graph, you intersect the graphed line at

B. (I point): y = 0.75xC. (I point): The variable x represents the

fore, the number of units of Substance Xwill exceed the number of units of Substance Y since all quantities increasing exponentially will eventually exceed all quantities increasing linearly.

4. 6-P1 CR [F-IFA.1, F-IE.8.4, F-IF.8.5, F-IE.8.5]



B, (I point domain, I point range): The domain is $-40 \le x \le 40$. The range is $10 \le$

C. (I point answer, I point explanation): The point is (-40, 14). The point shows that 40 days before September 21st, there

were 14 hours of daylight. D. (1 point): The function f(x) = -0.05x +12 decreases for all values of x. But the amount of daylight does not continue to decrease forever. In the spring, the amount of daylight increases again. For example, if you substitute x = 365 into the function and evaluate, the result is

eBooks

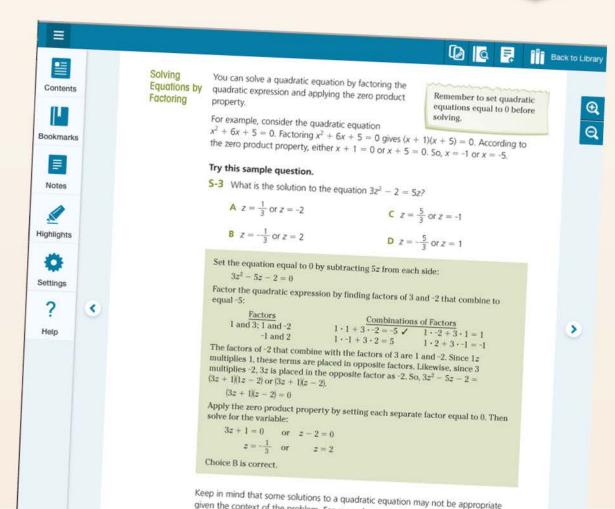
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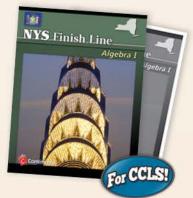
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From EngageNY.org of the New York State Education Department. New York State Common Core Mathematics Curriculum Internet. Available from http://www.engageny.org/sites/default/files/resource/attachments/algebra-i-m1-teacher-materials.pdf; accessed 3, March, 2014.