

BIG IDEAS MATH
Course 3 (Common Core)
California Edition

Foundations Review

Alejandro De La Torre

Winter Break 2025

Quick Links

[Latest version & replication files](#)

[Textbook \(Online Access\)](#)

[Basic Skills Handbook](#)

[Skills Review Handbook](#)

[Multi-Language Glossary](#)

[Glossary Flashcards \(PDF\)](#)

Dedication. For Lizbeth. You are smart, brilliant, and capable of anything you set your mind to. Please remember to take breaks, drink water, and get some fresh air, eat good yums, mimis, and take your time.

Contents

0	Absolute Foundations	5
0.1	Integers Signs	5
0.2	Order of Operations	5
0.3	Distributive Property	5
0.4	Mixed Foundations Review	5
1	Equations	6
1.1	Solving Simple Equations	6
1.2	Solving Multi-Step Equations	7
1.3	Solving Equations with Variables on Both Sides	8
1.4	Rewriting Equations and Formulas	9
2	Transformations	10
2.1	Congruent Figures	10
2.2	Translations	11
2.3	Reflections	12
2.4	Rotations	13
2.5	Similar Figures	14
2.6	Perimeters and Areas of Similar Figures	15
2.7	Dilations	16
3	Angles and Triangles	17
3.1	Parallel Lines and Transversals	17
3.2	Angles of Triangles	18
3.3	Angles of Polygons	19
3.4	Using Similar Triangles	20
3.5	Chapter 3 Review	21

4	Graphing and Writing Linear Equations	22
4.1	Graphing Linear Equations	22
4.2	Slope of a Line	23
4.3	Graphing Proportional Relationships	24
4.4	Graphing Linear Equations in Slope-Intercept Form	25
4.5	Graphing Linear Equations in Standard Form	26
4.6	Writing Equations in Slope-Intercept Form	27
4.7	Writing Equations in Point-Slope Form	28
4.8	Chapter 4 Review	29
5	Systems of Linear Equations	30
5.1	Solving Systems of Linear Equations by Graphing	30
5.2	Section 5.2	31
5.3	Section 5.3	32
5.4	Section 5.4	33
5.5	Chapter 5 Review	34
6	Functions	35
6.1	Section 6.1	35
6.2	Section 6.2	36
6.3	Section 6.3	37
6.4	Section 6.4	38
6.5	Section 6.5	39
6.6	Chapter 6 Review	40
7	Real Numbers and the Pythagorean Theorem	41
7.1	Section 7.1	41
7.2	Section 7.2	42
7.3	Section 7.3	43
7.4	Section 7.4	44
7.5	Section 7.5	45
7.6	Chapter 7 Review	46
8	Volume and Similar Solids	47
8.1	Section 8.1	47
8.2	Section 8.2	48
8.3	Section 8.3	49

8.4	Section 8.4	50
8.5	Chapter 8 Review	51
9	Data Analysis and Displays	52
9.1	Section 9.1	52
9.2	Section 9.2	53
9.3	Section 9.3	54
9.4	Section 9.4	55
9.5	Chapter 9 Review	56
10	Exponents and Scientific Notation	57
10.1	Section 10.1	57
10.2	Section 10.2	58
10.3	Section 10.3	59
10.4	Section 10.4	60
10.5	Section 10.5	61
10.6	Section 10.6	62
10.7	Section 10.7	63
10.8	Chapter 10 Review	64
A	Solutions	65
B	Additional Examples	66

Chapter 0

Absolute Foundations

0.1 Integers Signs

0.2 Order of Operations

0.3 Distributive Property

0.4 Mixed Foundations Review

Chapter 1

Equations

1.1 Solving Simple Equations

1.2 Solving Multi-Step Equations

1.3 Solving Equations with Variables on Both Sides

1.4 Rewriting Equations and Formulas

Chapter 2

Transformations

2.1 Congruent Figures

2.2 Translations

2.3 Reflections

2.4 Rotations

2.5 Similar Figures

2.6 Perimeters and Areas of Similar Figures

2.7 Dilations

Chapter 3

Angles and Triangles

3.1 Parallel Lines and Transversals

3.2 Angles of Triangles

3.3 Angles of Polygons

3.4 Using Similar Triangles

3.5 Chapter 3 Review

Chapter 4

Graphing and Writing Linear Equations

4.1 Graphing Linear Equations

4.2 Slope of a Line

4.3 Graphing Proportional Relationships

4.4 Graphing Linear Equations in Slope-Intercept Form

4.5 Graphing Linear Equations in Standard Form

4.6 Writing Equations in Slope-Intercept Form

4.7 Writing Equations in Point-Slope Form

4.8 Chapter 4 Review

Chapter 5

Systems of Linear Equations

5.1 Solving Systems of Linear Equations by Graphing

5.2 Section 5.2

5.3 Section 5.3

5.4 Section 5.4

5.5 Chapter 5 Review

Chapter 6

Functions

6.1 Section 6.1

6.2 Section 6.2

6.3 Section 6.3

6.4 Section 6.4

6.5 Section 6.5

6.6 Chapter 6 Review

Chapter 7

Real Numbers and the Pythagorean Theorem

7.1 Section 7.1

7.2 Section 7.2

7.3 Section 7.3

7.4 Section 7.4

7.5 Section 7.5

7.6 Chapter 7 Review

Chapter 8

Volume and Similar Solids

8.1 Section 8.1

8.2 Section 8.2

8.3 Section 8.3

8.4 Section 8.4

8.5 Chapter 8 Review

Chapter 9

Data Analysis and Displays

9.1 Section 9.1

9.2 Section 9.2

9.3 Section 9.3

9.4 Section 9.4

9.5 Chapter 9 Review

Chapter 10

Exponents and Scientific Notation

10.1 Section 10.1

10.2 Section 10.2

10.3 Section 10.3

10.4 Section 10.4

10.5 Section 10.5

10.6 Section 10.6

10.7 Section 10.7

10.8 Chapter 10 Review

Appendix A

Solutions

Appendix B

Additional Examples