A KEY TO THE FIRST LESSONS IN ALGEBRA, CONTAINING THE ANSWERS TO THE QUESTIONS, WITH NUMEROUS EXPLANATIONS AND SOLUTIONS

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A Key to the First Lessons in Algebra, Containing the Answers to the Questions, with Numerous Explanations and Solutions by Ebenezer Bailey

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EXPLANATIONS AND SOLUTIONS.

BY EBENEZER BAILEY, PRINCIPAL OF THE TOURS LADERS' HEAD SCHOOL, BOITON; AUTHOR OF "YOUNG LADERS' CLAM HOOK," &C.



BOSTON: JENKS AND PALMER.

1641.

Educ 3128:34:3

Herverd Oollege Library A...7 128.41.192 Jul. 27, 1916 Gift of Mrs. G. L. Batchelder Medford.

> Aτ a meeting of the School Committee of the City of Boston, March 11, 1834,

Voted, That "BAILEY'S ALGEBRA" be used in the Writing Schools in which Algebra is allowed to be taught.

Attest,

S. F. MCCLEARY, Secretary

Entered according to Act of Congress, in the year .234, . By ENEREZER BAILEY, In the Clerk's Office of the District Court of Massachusetts.

KEY

BAILEY'S ALGEBRA.

CHAPTER II.

ADDITION

SECTION I.

1,	2, 3. Answers.giv-	16 40 a b c d.
8	en in the book.	
4.	14 a b c.	18 39 a b x y.
5.	16 y z.	19 38 a.
	9 a x.	20 23 x y.
7.	9 a b c.	21, 22, 23. Answers
8.	33 a r x.	given.
9.	23 a dollars.	24. ab.
10.	25 a b c.	25. 2 a b x.
11.	Answer given.	26. 0.
	- 23 x y.	27. — 8 a b m x.
13.	- 50 a b c.	28. 2 a m x.
14.	- 27 x y z.	29, 30, 31. Answers
	- 23 a b x.	given.

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ADDITION.

[CHAP. II.

32.	3 x.	37. 0.	
33.	a b.	38. — 3 m x y.	c.
34.	5 b c.		
35.	— 9 a b c d.	39. — 5 a x. 40. a b x.	
36.	x y.		

SECTION II.

1, 2. Answers given in the book. 6x - 5y + 7xy - 4z. 3. 7 a b - 4 y + 12 b x - 6.4. 6 a b x - 5 a - x y + 27.5. 19ax - 3amn + iyz - am6. -4y+z+axy-mn. 7. ar - 3z - ab - 61.8. 9, 10. Answers given. 3abc+6axy-xy. 11. 12. ax - ay. -2x-2z+abc.13. 14. x - 3 a x + 3 y + 159.15. 6axy + bmn - 7 + yz16. x - b. 2ab+cd. 17. 18. 5 x y - 3. 19. 6 h m - 6. 20. -7xyz - mn + 8yz. 105 + a b x + m. 21. 22. 5xyz - xy.23. 4 a b x - 723. 24. 3 y z.

CT. 111.]

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ADDITION.

SECTION III.

3, 4. Answers given in the book. 1, 2, 9 a x - b c + 17 y.5. Answer given. 6. 9(5a - xy). 7. 11 (a b - x + 3 y). 8. 9. 9 a (m n - 6 + y z).16 (b c - x y).10. 11. 8 a b + 5 c + 2 a x + 30 . 12. x + m n. 15 b c - 13 a x - 26 y + 19 + 4 a c z. 13. 9x - 16y + 18m + 1 - 2z. 14. 4 a b c + 2 a (b - x) - 3 x y z.15. 3a - xy + 2(x - y) + a(x - y).16. 17. ab-1-m. axy + 10 + 2a(a - b) - 5bc.18.

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CHAPTER III.

SUBTRACTION.

SECTION I.

1,	2. Answers given	17.	2 m - 3 n.
	in the book.	18.	7 x - 2 y.
3.	3 b.	19.	14 a b c - 2 x y.
4.	12 y.	0 2200	12 ax z - 29 h m.
5.	7 x.	21.	19 a - 2 y.
6.	14 a b c.	22.	4 z - 5 x y.
7.	3 x y z.	23.	x - 13 b c.
8.	11 m y.	24.	7 m x - p.
9.	2 a x.	25.	b c - m n.
10.	x y z.	26.	x - 13 b c.
	0.	27.	p - 7 m x.
12.	12 h m p.	28.	m n - b c.
13,	14, 15. Answers	29.	x y z - x y.
	given.	30.	32 a b c - 16.
16.	7 x — 3 y.	31.	8 a b c x - 4 a b c.

SECTION II.

1,	2,	3.	Ans	wers	1 4.	4 a b c - y.
20	15	given book.	in		5.	4 x - b - z. abcd - 2m - 3y.



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SECT. 111.]

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25. b c x - x y z + a7. 47 - x - b d. ab-y+x. 8. abx-3ax-12. 26. 9. 3 a - b. 27. 64 — x. bx - xz + y. 10. 4 a - 2 x - y. 28. abe-xyz+9x. 11. - 16. 29. 17 - x. 12. 30. 4. 13. bc - 4y - x. 31. ax - ab - 7. xy + 9a. 14. - x. 32. 15. 1 --- x. 33. ad - 9. 16. 4 x y - 5. 34. -m + 5a. 17. 12 - 2 y. 35. 36 - x. 18. 36. - b. x --- ¥. 20. Answers given. 37. 15 - 4 a. 19, 21. 5xy + abm. 38. 7 - 0. 3(a + b) + x. 22. 7 - x. 39. 23. 8mx+y+3ab.-x(x-y)+xy.40. 24. 24 - b c. 41. 2 a x - b.

SECTION III.

2, 3, 4, 5, 6. Answers given in the book. 1, 18 x y - 102 - 59 a b m - 3 a r. 7. 8. 7 x m - 6 m. 9. 0. 10. 35 x y z - 55. an + op - xyz + 60.. 11. 12. 19 abx - amn - 12 bcd - 3 abc. 13. 2 4. -ryz - 39 + 7ab + 33x. 14, x + 2yz - 28abc - 7 + xy.15. 16. 2y + 2z.

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