

# MTH101: ALGEBRA I

## SYLLABUS

### READ THESE INSTRUCTIONS NOW!

- a.) Download & Save it
- b.) Read it
- c.) Add responses directly to it
- d.) When you are complete, submit from your account page.

## Plagiarism Statement

I understand that I must use research conventions to cite and clearly mark other people's ideas and words within my paper. I understand that plagiarism is an act of intellectual dishonesty. I understand it is academically unethical and unacceptable to do any of the following acts of which **I will be immediately expelled without refund:**

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- To take work originally done for one instructor's assignment and re-submit it to another teacher.
- To cheat on tests or quizzes through the use of crib sheets, hidden notes, viewing another student's paper, revealing the answers on my own paper to another student through verbal or textual communication, sign language, or other means of storing and communicating information--including electronic devices, recording devices, cellular telephones, headsets, and portable computers.
- To copy another student's work and submit the work as if it were the product of my own labor.

### WELCOME TO ALGEBRA I

**Course MTH101: Algebra I:** This course is the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations and inequalities, and graphing linear and quadratic functions and relations. Real world applications are presented within the course content and a function's approach is emphasized.

### WARM UP VIDEOS

Use the links below to warm up for your Algebra Class. Take notes to be used to complete your textbook work in later weeks. Please note – your notes are worth 50% of your grade so be detailed and organized when taking notes.

**1.) The Origins of Algebra: Watch the videos, take notes and complete all practice lessons when given.**

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/overview-hist-alg/v/origins-of-algebra>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

2.) What is a variable: Watch the videos, take notes and complete all practice lessons when given.

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-intro-to-variables/v/what-is-a-variable>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

3.) Substitution and Evaluating Expressions: Watch the videos, take notes and complete all practice lessons when given.

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-substitution/v/evaluating-expressions-in-two-variables>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

4.) Evaluating Expressions w/Word Problems: Watch the videos, take notes and complete all practice lessons when given.

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-evaluating-expressions-word-problems/a/evaluating-expressions-with-variables-in-word-problems>

Share your notes and results from practice below to show what you learned. You

can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

**YOU CAN ADD VIDEO NOTES BELOW**

### **YOUR IOHS ALGEBRA WORKBOOK (Download)**

Complete for submission the following pages. Page numbers are in the top right corner of the page inside the square. If you print and scan your pages, you must either re-scan and save as a PDF or mail in your work.

#### **ASSIGNMENT**

**PAGE 2 Number 25**

**Study Page 3**

**Page 4 Numbers 15 thru 20**

**Page 5 Numbers 19 and 20**

**Page 6 Numbers 10 – 20**

**Page 7 ALL**

**Page 8 Numbers 10 thru 20**

**YOU CAN ADD WORK BELOW**

#### **LECTURE VIDEOS**

Use the links below to learn key fundamentals for your Algebra Class. Take notes to be used to complete your textbook work in later weeks

**1.) Writing Algebraic Expressions: Watch the videos, take notes and complete all practice lessons when given.**

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-writing-expressions/v/writing-expressions-with-variables-examples>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

2.) Dependent and Independent Variable: Watch the videos, take notes and complete all practice lessons when given.

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-dependent-independent/v/dependent-and-independent-variables-exercise-example-1>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

3.) Combining Like Terms: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-manipulating-expressions/v/combining-like-terms>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

4.) Introduction to Equivalent Algebraic Equations: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1->

[manipulating-expressions/v/combining-like-terms](#)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

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**ASSIGNMENT**

**Page 9 Numbers 25 thru 30**

**Page 10 Numbers 8 thru 12**

**Page 11 Numbers 5 thru 20**

**Page 12 ALL**

**Page 13 Numbers 10 thru 13**

**Page 15 Numbers 5 thru 7**

**Page 16 Numbers 8 thru 10**

**Page 17 Numbers 14 thru 20**

**Page 18 Numbers 8, 9 and 15**

**YOU CAN ADD WORK BELOW**

**1.) Interpreting Linear Expressions: Watch the videos, take notes and complete the practice lessons when given**

[https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-  
interpreting-lin-exp/v/interpreting-linear-expressions-example](https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-interpreting-lin-exp/v/interpreting-linear-expressions-example)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

**2.) Division by Zero: Watch the videos, take notes and complete the practice lessons when given**

[https://www.khanacademy.org/math/algebra/introduction-to-algebra/division-  
by-zero/v/why-dividing-by-zero-is-undefined](https://www.khanacademy.org/math/algebra/introduction-to-algebra/division-by-zero/v/why-dividing-by-zero-is-undefined)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

**3.) Algebraic Equation Basics: Watch the videos, take notes and complete the practice lessons when given**

[https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-  
intro-equations/v/testing-solutions-to-equation](https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-intro-equations/v/testing-solutions-to-equation)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

**4.) Why We Do the Same Thing to Both Sides: Watch the videos, take notes and complete the practice lessons when given**

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1->

[solving-equations/v/why-we-do-the-same-thing-to-both-sides-simple-equations](https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-one-step-add-sub-equations/v/why-we-do-the-same-thing-to-both-sides-simple-equations)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

5.) One Step Addition and Subtraction Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-one-step-add-sub-equations/v/adding-and-subtracting-the-same-thing-from-both-sides>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

**YOU CAN ADD VIDEO NOTES BELOW**

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**ASSIGNMENT**

**Study Pages 19 and 20**

**Page 21 Number 1, 5, 12, 16 and 19**

**Page 22 Numbers 1 and 9**

**Page 23 Numbers 10 thru 13**

Page 24 Numbers 4 thru 8

Page 25 ALL

Page 26 ALL

**YOU CAN ADD WORK BELOW**

1.) One Step Multiplication and Division: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations#alg1-one-step-mult-div-equations>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

2.) Two Step Equations Intro: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-two-steps-equations-intro/v/why-we-do-the-same-thing-to-both-sides-two-step-equations>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

3.) Two Step Equations Word Problem: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-linear-eq-word-probs/v/basic-linear-equation-word-problem>

Share your notes and results from practice below to show what you learned. You



can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

4.) Linear Equations with Variables on Both Sides: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-variables-on-both-sides/v/why-we-do-the-same-thing-to-both-sides-multi-step-equations>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

5.) Linear Equations with Variables on Both Sides: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-variables-on-both-sides/v/why-we-do-the-same-thing-to-both-sides-multi-step-equations>

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**YOU CAN ADD VIDEO NOTES BELOW**

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## ASSIGNMENT

Page 27 ALL

Page 28 Numbers 6 thru 10

Page 29 Numbers 8 thru 10

Page 30 Numbers 6 thru 10

Page 31 Numbers 1 and 2

**YOU CAN ADD WORK BELOW**

1.) Linear Equations with Parenthesis: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-equations-with-parentheses/v/solving-equations-with-the-distributive-property>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons.

2.) Analyzing the Number of Solutions to Linear Equations: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-number-of-solutions-to-linear-equations/v/number-of-solutions-to-linear-equations>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

3.) Linear Equations Word Problems: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/alg1-linear-equations-word-problems/v/sum-consecutive-integers>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

4.) Linear Equations with Unknown Coefficients: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-equations/linear-equations-with-unknown-coefficients/v/linear-equations-with-unknown-coefficients>

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**YOU CAN ADD NOTES BELOW**

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**ASSIGNMENT**

**Page 35 ALL**

**Page 36 ALL**

Page 37 ALL

Page 38 Numbers 7, 8 and 9

Page 39 Numbers 8, 9 and 10

Page 41 Numbers 1 and 2

Page 42 Number 7 thru 9

**YOU CAN ADD WORK BELOW**

1.) Introduction to Inequalities with Variables: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/alg1-inequalities/v/testing-solutions-to-inequalities>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

2.) One Step Inequalities: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/alg1-one-step-inequalities/v/inequalities-using-multiplication-and-division>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

3.) Two Step Inequalities: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/alg1-two-step-inequalities/v/two-step-inequalities-using-addition-and-subtraction>

[inequalities/alg1-two-step-inequalities/v/solving-inequalities](https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/alg1-two-step-inequalities/v/solving-inequalities)

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

4.) Multi Step Inequalities: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/multi-step-inequalities/v/multi-step-inequalities-3>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

5.) Multi Step Inequalities: Watch the videos, take notes and complete the practice lessons when given

<https://www.khanacademy.org/math/algebra/one-variable-linear-inequalities/compound-inequalities/v/compound-inequalities>

Share your notes and results from practice below to show what you learned. You can type your notes, take a screenshot of practice results or copy as an image and insert it here - just make sure to submit evidence of studying these lessons

**YOU CAN ADD WEEK SIX VIDEO NOTES BELOW**

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## **ASSIGNMENT**

**Page 41 ALL**

**Page 45 Numbers 6 thru 10**

**Page 46 Numbers 7 thru 10**

**Study Pages 47 thru 49**

**Page 50 Numbers 9 thru 50**

**Page 52 Numbers 12 thru 15**

**Page 53 Numbers 4 thru 8: Use this link for support**

**<https://www.khanacademy.org/math/algebra/introduction-to-polynomial-expressions>**

**YOU CAN ADD WORK BELOW**