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## College Algebra

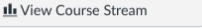
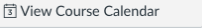
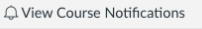


This online course provides an introduction to the basic principles of mathematics. Please refer to the [syllabus](#) for the semester's tentative schedule as well as my contact information in case you need any assistance as we move through the modules.








Here is a quick glance at the modules we will be working on this semester. You may click the links to see the corresponding notes and assignments. View the full calendar of upcoming quizzes and exams in the syllabus.









### Course Topics

- [Topic 1: Prerequisites](#)
- [Topic 2: Solving Equations and Inequalities](#)
- [Topic 3: Linear Equations](#)
- [Topic 4: Linear Functions](#)
- [Topic 5: Systems of Linear Equations and Inequalities](#)
- [Topic 6: Exponents and Exponential Functions](#)
- [Topic 7: Polynomials and Factoring](#)
- [Topic 8: Quadratic Functions](#)
- [Topic 9: Solving Quadratic Equations](#)
- [Topic 10: Working with Functions](#)

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### To Do


-  [1st Day of Class](#) ×  
College Algebra  
Jan 10, 2024 at 12am
-  [Quiz 1](#) ×  
College Algebra  
Jan 17, 2024 at 12am
-  [Quiz 1](#) ×  
College Algebra  
3 points |  
Jan 17, 2024 at 11:59pm
-  [Quiz 2](#) ×  
College Algebra  
Jan 24, 2024 at 12am
-  [Quiz 2](#) ×  
College Algebra  
3 points |  
Jan 24, 2024 at 11:59pm
-  [Exam 1](#) ×  
College Algebra  
Jan 31, 2024 at 12am
-  [Quiz 3](#) ×  
College Algebra  
Feb 7, 2024 at 12am


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Collapse All

▼ Topic 1: Prerequisites


 Topic 1 Resources


 Notes: Finding Slope from a Graph, Equation and Tables.pptx


 Graphing Slope-Intercept Form Practice


 Quiz 1  
Jan 17, 2024 | 3 pts

▼ Topic 2: Solving Equations and Inequalities

 Topic 2 Resources

 Notes: Solving Multistep Equations.pptx

 Quiz 2  
Jan 24, 2024 | 3 pts
















 Test Review

▼ Topic 3: Linear Equations

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Today Dec 29, 2023 – May 13, 2024

Week Month Agenda +

- Wed, Jan 10
  -  1st Day of Class
- Wed, Jan 17
  -  Quiz 1
  -  Due 11:59pm Quiz 1
- Wed, Jan 24
  -  Quiz 2
  -  Due 11:59pm Quiz 2
- Wed, Jan 31
  -  Exam 1
- Wed, Feb 7
  -  Quiz 3
- Wed, Feb 21
  -  Quiz 4
- Wed, Feb 28
  -  Exam 2
- Wed, Mar 13
  -  Quiz 5
- Wed, Mar 27
  -  Exam 3
- Wed, Apr 10
  -  Quiz 6
- Wed, Apr 24
  -  Quiz 7
- Wed, May 1
  -  Quiz 8
- Mon, May 13
  -  Final Exam

January 2024						
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

- CALEDARS
- Test Student
- College Algebra

UNDATED

[Calendar Feed](#)

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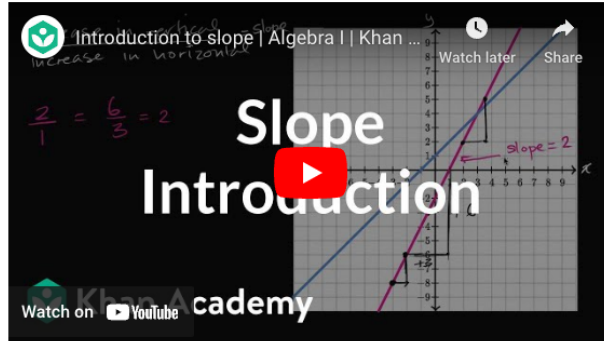
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## Topic 1 Resources

### Topic 1 Learning Objectives:

- Identify the four types of slope.
- Calculate the slope from two points, a table, or an equation.
- Utilize slopes and rates of change in real world examples.

### Intro to Slope:



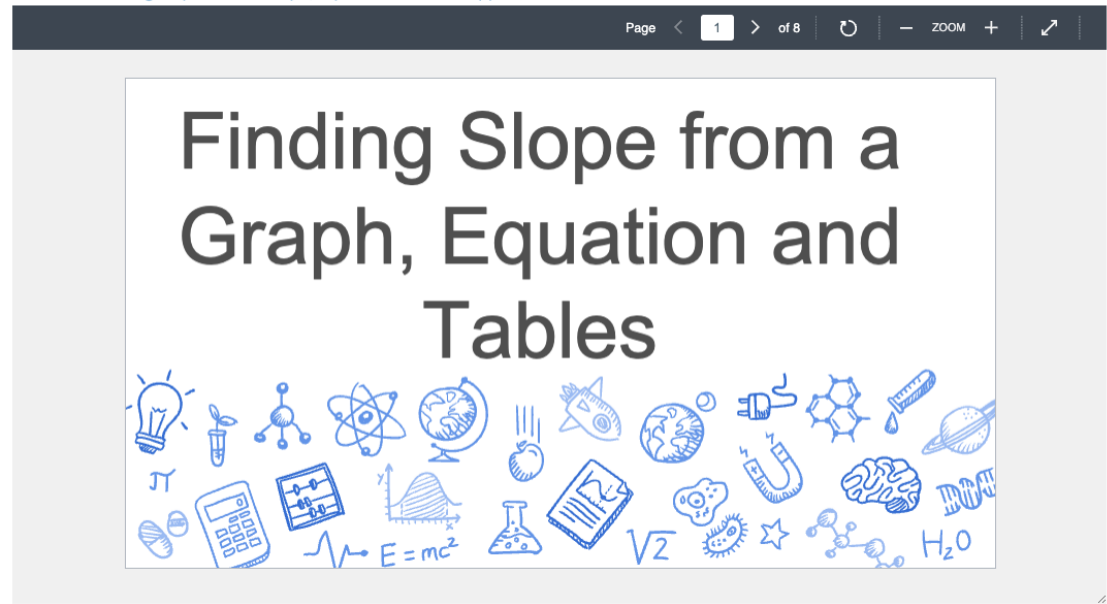
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## Finding Slope from a Graph, Equation and Tables.pptx

[Download Finding Slope from a Graph, Equation and Tables.pptx](#) (948 KB)



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# Graphing Slope-Intercept Form Practice

Complete the following to help you further your understanding of slope-intercept form:

[Graphing Slope-Intercept Form.pdf](#) ↓

[Minimize File Preview](#)

↺ — ZOOM + ↗

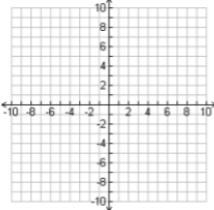
## GRAPHING SLOPE-INTERCEPT FORM NOTES

Slope-Intercept Form:  $y = \bigcirc x + \bigcirc$   
Slope   Y-Intercept

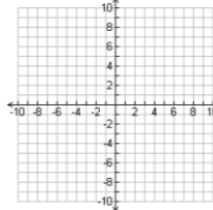
**EQUATIONS IN SLOPE-INTERCEPT FORM**

- 1) Identify the \_\_\_\_\_ and plot (0,\_\_\_\_) on the \_\_\_\_\_
- 2) Use the \_\_\_\_\_ to find a second point.  
 Remember slope =  $\frac{\text{rise}}{\text{run}}$   
 (Put a whole number over 1 to make it a fraction.  $2 = \frac{2}{1}$ )
- 3) Connect the points with a \_\_\_\_\_

**Example 1:**  
Graph  $y = 2x - 3$



**Example 2:**  
Graph  $y = -\frac{2}{3}x + 5$



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## Quiz 1

Started: Dec 29 at 2:06pm

### Quiz Instructions



### Quiz 1

This quiz covers the slope and graphs of a function.

### Questions

- [Question 1](#)
- [Question 2](#)
- [Question 3](#)

Time Elapsed: Hide Time  
 Attempt due: Jan 17, 2024 at 11:59pm  
 0 Minutes, 34 Seconds

Question 1
1 pts

Which of the following is not a type of slope?

- vertical
- positive
- zero
- negative

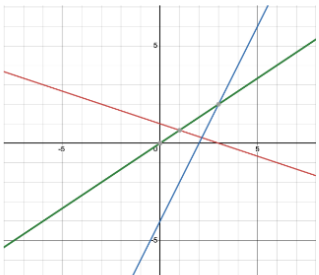
Question 2
1 pts

Slope is designated with which letter in slope-intercept form  $y=mx+b$ ?



- y
- b
- m
- x

Question 3
1 pts

Which slopes are represented in this coordinate plane? Select all that apply.



- 2/3
- 1/3
- 1/2
- 2

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## Topic 2 Resources

### Topic 2 Learning Objectives:

- Solve linear equations and inequalities with rational number coefficients that include the use of the distributive property, combining like terms, and variables on both sides.
- Recognize the three types of solutions to linear equations: one solution, infinitely many solutions, or no solutions.
- Justify why linear equations have a specific type of solution.

### Distributive Property:

A YouTube video thumbnail with a dark background. At the top, it says 'Distributive Property of Multiplication Explained!'. Below that, the word 'DISTRIBUTIVE PROPERTY' is written in large, bold, white letters, and 'EXPLAINED!' is written in large, bold, pink letters. In the center, the equation  $4(x+3) = 4x+12$  is shown. The '4' is blue, 'x' is white, '3' is green, and '12' is purple. Orange arcs connect the '4' to both 'x' and '3'. A red YouTube play button is in the center. At the bottom, it says 'Watch on YouTube'.

### Combining Like Terms:

A YouTube video thumbnail with a dark purple background. At the top, it says 'Combining Like Terms'. Below that, the equation  $4x + 9 + 4 + 8x$  is shown. The terms  $4x$ ,  $4$ , and  $8x$  are each enclosed in a white box. A red YouTube play button is in the center. At the bottom, it says 'Watch on YouTube' and 'lath'.

### Solving Two Step Equations:

A YouTube video thumbnail with a black background. At the top, it says 'Why we do the same thing to both side...'. Below that, the text 'Same thing to both sides of equations' is written in large, white letters. In the background, there is a balance scale with weights. A red YouTube play button is in the center. At the bottom, it says 'Watch on YouTube' and 'cademy'.

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### Solving Multistep Equations.pptx

Download Solving Multistep Equations.pptx (743 KB)

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Solving Multistep Equations

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## Quiz 2

Started: Dec 29 at 2:14pm

### Quiz Instructions



## Quiz 2

This quiz covers solving multistep equations and inequalities.

### Questions

- Question 1
- Question 2
- Question 3

Time Elapsed: Hide Time  
Attempt due: Jan 24, 2024 at 11:59pm  
0 Minutes, 13 Seconds

**Question 1** 1 pts

Solve for x in the equation  $0.7(4+x) = 6.2 - x$

1.5

2

1

2.5

**Question 2** 1 pts

Match each equation with the number of solutions it has.

$1.5x - 4 = 2x - 2 - 0.5x$  [ Choose ]

$10 + 3x = 0.25(20 - 8x)$  [ Choose ]

$3(2x + 1) = 6x + 5 - 2$  [ Choose ]

**Question 3** 1 pts

Which of the following could be solutions to the inequality  $-3(2x - 5) - 4x + 11 < 6$

2

-5

5

0

12

-2

Quiz saved at 4:14pm Submit Quiz