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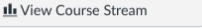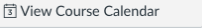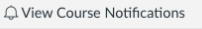History
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College Algebra

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

View Course Stream
View Course Calendar
View Course Notifications

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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▼ 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

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
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

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■ College Algebra ⋮

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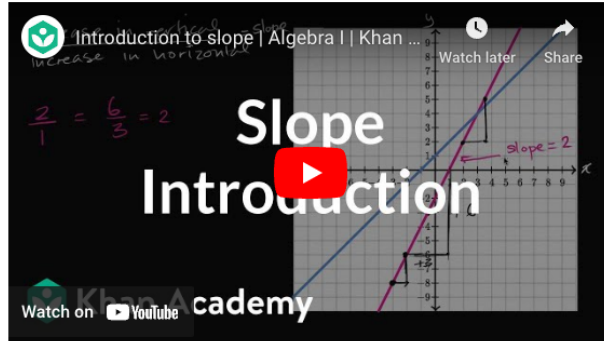
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Finding Slope from a Graph, Equation and Tables.pptx

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

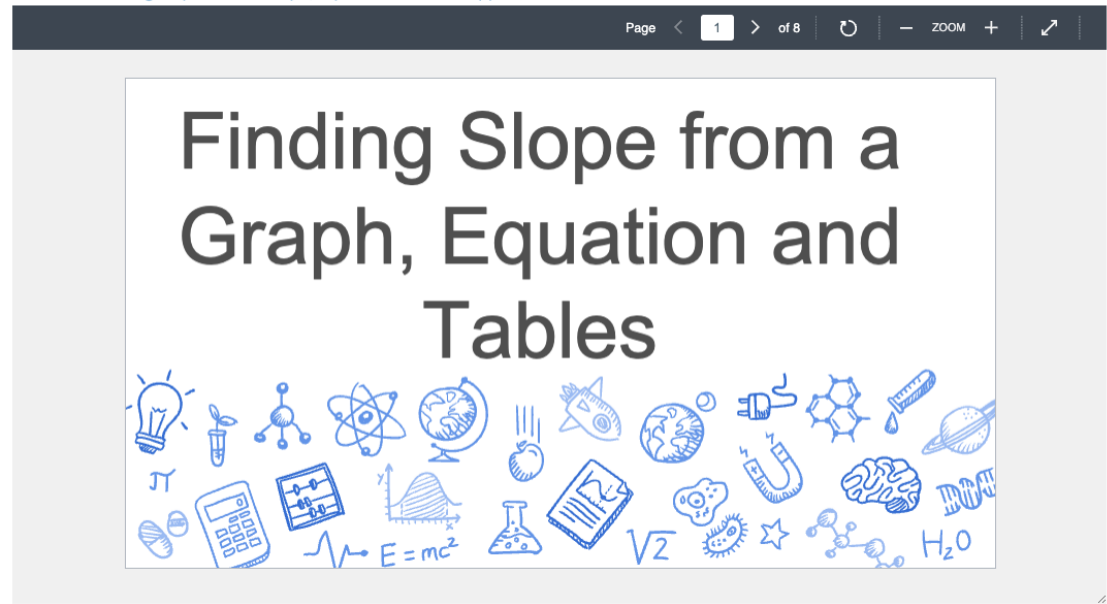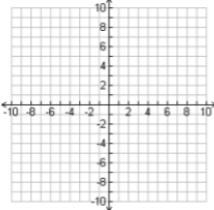ZOOM

GRAPHING SLOPE-INTERCEPT FORM NOTES

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

Slope   Y-Intercept
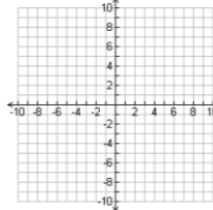
EQUATIONS IN SLOPE-INTERCEPT FORM

1) Identify the _____ and plot (0,___) on the _____.

2) Use the _____ to find a second point.
   Remember slope = $\frac{rise}{run}$
   (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 $y = -\frac{2}{3}x + 5$

Quiz 1

Started: Dec 29 at 2:06pm

Quiz Instructions

Quiz 1

This quiz covers the slope and graphs of a function.

Question 1	1 pts

Which of the following is not a type of slope?

○ vertical

○ positive

○ zero

○ negative
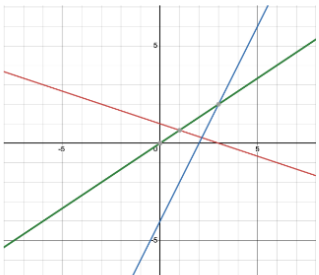
Question 2	1 pts

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

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:

Combining Like Terms:

Solving Two Step Equations:

Solving Multistep Equations.pptx

Download Solving Multistep Equations.pptx (743 KB)

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Quiz 2

Started: Dec 29 at 2:14pm

Quiz Instructions

Quiz 2

This quiz covers solving multistep equations and inequalities.

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]