

keep scrolling to
get a sneak peek!

Help your Algebra 1 students
practice **writing linear
equations in slope intercept
form from a point & a slope.**
Your students will benefit from
being given choice when it
comes to how they want to
practice math!

SLOPE-INTERCEPT FORM FROM A POINT & SLOPE CHOICE BOARD

Name: _____ Date: _____

ANSWER KEY

Writing in Slope-Intercept Form from a Point

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work.

$(-1, 6) & m = 5$	$(-2, 1) & m = 1$	$(2, -3) & m = 7$	$(-3, 2) & m = -1$	$(-4, -9) & m = -2$
$6 = 5(-1) + b$ $6 = -5 + b$ $+5 +5$ $11 = b$ $y = 5x + 11$	$1 = 1(-2) + b$ $1 = -2 + b$ $+2 +2$ $3 = b$ $y = x + 3$	$3 = 3(2) + b$ $3 = 6 + b$ $-3 -3$ $-3 = b$ $y = 3x - 3$	$2 = -1(-3) + b$ $2 = 3 + b$ $-3 -3$ $-1 = b$ $y = -x - 1$	$-9 = -2(-4) + b$ $-9 = 8 + b$ $-8 -8$ $-17 = b$ $y = -2x - 17$

Math with Ms. Rivera

Why do you need this?



Allowing student choice in how they practice will encourage them to do the practice!



You can differentiate by the number of problems required of particular students.

Slope Intercept Form from Slope & Point Choice Board

Name: _____ Date: _____ Period: _____

Writing in Slope-Intercept Form from a Point and Slope

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.

$(-1, 6) & m = 5$	$(-2, 1) & m = 1$	$(1, 3) & m = 4$
$(10, 3) & m = 3$	$(2, -3) & m = 7$	
$(-3, 2) & m = -1$	$(-4, -9) & m = -2$	
$(-4, -2) & m = 5/4$	$(2, 4) & m = 1/2$	
$(-8, 1) & m = -3/4$	$(1, -3) & m = -5$	

ANSWER KEY

Name: _____ Date: _____ Period: _____

Writing in Slope-Intercept Form from a Point and Slope

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.

$(-1, 6) & m = 5$ $6 = 5(-1) + b$ $6 = -5 + b$ $+5 +5$ $11 = b$ $y = 5x + 11$	$(-2, 1) & m = 1$ $1 = 1(-2) + b$ $1 = -2 + b$ $+2 +2$ $3 = b$ $y = x + 3$	$(1, 3) & m = 4$ $3 = 4(1) + b$ $3 = 4 + b$ $-4 -4$ $-1 = b$ $y = 4x - 1$
$(10, 3) & m = 3$ $3 = 3(10) + b$ $3 = 30 + b$ $-30 -30$ $-27 = b$ $y = 3x - 27$	$(2, -3) & m = 7$ $-3 = 7(2) + b$ $-3 = 14 + b$ $-14 -14$ $-17 = b$ $y = 7x - 17$	$(1, 4) & m = 1$ $4 = 8(1) + b$ $4 = 8 + b$ $-8 -8$ $-4 = b$ $y = 8x - 4$
$(-3, 2) & m = -1$ $2 = -1(-3) + b$ $2 = 3 + b$ $-3 -3$ $-1 = b$ $y = -x - 1$	$(-4, -9) & m = -2$ $-9 = -2(-4) + b$ $-9 = 8 + b$ $-8 -8$ $-17 = b$ $y = -2x - 17$	$(-3, -2) & m = -2$ $-2 = -2(-3) + b$ $-2 = 6 + b$ $-6 -6$ $-8 = b$ $y = -2x - 8$
$(-4, -2) & m = 5/4$ $-2 = \frac{5}{4}(-4) + b$ $-2 = -5 + b$ $+5 +5$ $3 = b$ $y = \frac{5}{4}x + 3$	$(2, 4) & m = 1/2$ $4 = \frac{1}{2}(2) + b$ $4 = 1 + b$ $-1 -1$ $3 = b$ $y = \frac{1}{2}x + 3$	$(-3, -2) & m = -2$ $-2 = -2(-3) + b$ $-2 = 6 + b$ $-6 -6$ $-8 = b$ $y = -2x - 8$
$(-8, 1) & m = -3/4$	$(1, -3) & m = -5$	$(1, -3) & m = -5$ $-3 = -5(1) + b$

Slope Intercept form from a Point & Slope Choice Board *includes:*

Name: _____ Date: _____ Period: _____

Writing in Slope-Intercept Form from a Point and Slope

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.

$(-1, 6) \text{ \& } m = 5$	$(-2, 1) \text{ \& } m = 1$	$(1, 3) \text{ \& } m = 4$
$(10, 3) \text{ \& } m = 3$	$(-3, 3) \text{ \& } m = 7$	$(1, 4) \text{ \& } m = 8$
$(-3, 2) \text{ \& } m = -1$	$(-4, -9) \text{ \& } m = -2$	$(-3, -2) \text{ \& } m = -2/3$

- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 5 questions in each - 15 question total
- ✓ Spot to assign how many problems students need to complete

Writing Slope Intercept Form from a Point & Slope Choice Board

standards covered:

CCSS: HSA-CED.A.2

TEKs: A1.2.B

VA SOLs: EI.A.6.b

Name: _____ Date: _____ Period: _____

ANSWER KEY

Writing in Slope-Intercept Form from a Point and Slope

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$(-1, 6) \text{ \& } m = 5$ $6 = 5(-1) + b$ $6 = -5 + b$ $+5 \quad +5$ $11 = b$ $y = 5x + 11$	$(-2, 1) \text{ \& } m = 1$ $1 = 1(-2) + b$ $1 = -2 + b$ $+2 \quad +2$ $3 = b$ $y = x + 3$	$(1, 3) \text{ \& } m = 4$ $3 = 4(1) + b$ $3 = 4 + b$ $-4 \quad -4$ $-1 = b$ $y = 4x - 1$
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$(-3, 2) \text{ \& } m = -1$ $2 = -1(-3) + b$ $2 = 3 + b$ $-3 \quad -3$ $-1 = b$ $y = -x - 1$	$(-4, -9) \text{ \& } m = -2$ $-9 = -2(-4) + b$ $-9 = 8 + b$ $-8 \quad -8$ $-17 = b$ $y = -2x - 17$	$(-3, -2) \text{ \& } m = -2/3$ $-2 = -\frac{2}{3}(-3) + b$ $-2 = 2 + b$ $-4 = b$ $y = -\frac{2}{3}x - 4$

how the choice board resource works

Name: _____ Date: _____ Period: _____

Writing in Slope-Intercept Form from a Point and Slope

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.

$(-1, 6) \text{ \& } m = 5$	$(-2, 1) \text{ \& } m = 1$	$(1, 3) \text{ \& } m = 4$
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Assign students the number of problems they need to complete from each column.

Differentiate the choice board worksheet by reducing the number of problems assigned to show mastery.

Students can complete the any problems they want to in each column and in any order.

how to use this resource

This is a great individual practice activity to use when reviewing how to write linear equations in slope intercept form from a point & slope.

My favorite ways to use this choice board is for homework and math practice stations.

This is also a **substitute-friendly** assignment!

ANSWER KEY

Name: _____ Date: _____ Period: _____

Writing in Slope-Intercept Form from a Point and Slope

Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.

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$(10, 3) \text{ \& } m = 3$ $3 = 3(10) + b$ $3 = 30 + b$ $-30 \quad -30$ $-27 = b$ $y = 3x - 27$	<p>Name: _____ Date: _____ Period: _____</p> <p><i>Writing in Slope-Intercept Form from a Point and Slope</i></p> <p>Directions: Write an equation in slope-intercept form that goes through the given point and has the given slope. Choose _____ problems from each column. Show your work in the boxes.</p> <table border="1"> <tbody> <tr> <td>$(-1, 6) \text{ \& } m = 5$</td> <td>$(-2, 1) \text{ \& } m = 1$</td> <td>$(1, 3) \text{ \& } m = 4$</td> </tr> <tr> <td>$(10, 3) \text{ \& } m = 3$</td> <td>$(2, -3) \text{ \& } m = 7$</td> <td>$(1, 4) \text{ \& } m = 8$</td> </tr> <tr> <td>$(-3, 2) \text{ \& } m = -1$</td> <td>$(-4, -9) \text{ \& } m = -2$</td> <td>$(-3, -2) \text{ \& } m = -2/3$</td> </tr> </tbody> </table>		$(-1, 6) \text{ \& } m = 5$	$(-2, 1) \text{ \& } m = 1$	$(1, 3) \text{ \& } m = 4$	$(10, 3) \text{ \& } m = 3$	$(2, -3) \text{ \& } m = 7$	$(1, 4) \text{ \& } m = 8$	$(-3, 2) \text{ \& } m = -1$	$(-4, -9) \text{ \& } m = -2$	$(-3, -2) \text{ \& } m = -2/3$
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You may also enjoy ...

SLOPE INTERCEPT FORM FROM GRAPHS

Writing in Slope-Intercept Form from Graphs
Directions: Look at each graph and write the equation in slope-intercept form. If you are correct, the answer box will turn green. If you are incorrect, it will turn red. Type your answer with no spaces. Ex: $y=2/3x-5$

Self-Checking

CHOICE BOARDS BUNDLE

Writing Linear Functions

Algebra I
Writing in Slope-Intercept Form
Directions: Given the two points, write the equation in slope-intercept form. Show your work.

Math with Ms. Rivera

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WRITING IN SLOPE INTERCEPT FORM

Digital & Print Activity Pack

10 Activities

Math with Ms. Rivera

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Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

check it out!

The image shows a collage of algebra worksheets and a digital tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS** and **SOLVING SYSTEMS OF EQUATIONS**.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** worksheet with problems like $\frac{x-2}{x^2+2x+1}$.
- SOLVING SYSTEMS OF EQUATIONS** worksheet with problems like $2. 2x - 6y = -18$ and $x = 3y - 4$.

The digital tablet displays a self-checking activity titled **Rational Expression Operations - Addition & Subtraction**. The directions are: "Answer each question and type the question number with the matching answer in the answer column to the right." The activity consists of a table with 8 questions and 8 answers, with a path of colored lines connecting the questions to their corresponding answers.

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$-\frac{x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

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