

keep scrolling to get  
a sneak peek!

Help your Algebra 1 students  
practice writing linear  
equations in **slope intercept  
form from two points** with  
this task card activity! Your  
students are going to love  
this self-checking activity!

# SLOPE INTERCEPT FORM FROM 2 POINTS

16 Task Cards

WRITING SLOPE INTERCEPT FORM GIVEN 2 POINTS TASK CARDS RECORDING SHEET

Directions: Using the two points, write the equation of the line in slope intercept form. Show your work.

Name: Answer Key Date: \_\_\_\_\_

**A**  $m = \frac{-8-1}{0+3} = \frac{-9}{3} = -3$   
 $b = -8$   
 $y = -3x - 8$

**B**  $m = \frac{-5-7}{0+2} = \frac{-12}{2} = -6$   
 $b = -5$   
 $y = -6x - 5$

**C**  $m = \frac{1-5}{1-2} = \frac{-4}{-1} = 4$   
 $b = -9$   
 $y = 4x - 9$

**D**  $m = \frac{2-1}{-1-2} = \frac{1}{-3} = -\frac{1}{3}$   
 $b = 1$   
 $y = -\frac{1}{3}x + 1$

**E**  $m = \frac{-1-3}{-6-0} = \frac{-4}{-6} = \frac{2}{3}$   
 $b = 3$   
 $y = \frac{2}{3}x + 3$

**F**  $m = \frac{7-4}{2-1} = \frac{3}{1} = 3$   
 $4 = 3(1) + b$   
 $4 = 3 + b$   
 $-3 -3$   
 $b = 1$   
 $y = 3x + 1$

**G**  $m =$   
 $2 = 7$   
 $2 = 2$   
 $-21 -2$   
 $-19 = b$   
 $y = 7x - 19$

**H**  $m = \frac{1-5}{1-2} = \frac{-4}{-1} = 4$   
 $b = -9$   
 $y = 4x - 9$

**I**  $m = \frac{2-1}{-1-2} = \frac{1}{-3} = -\frac{1}{3}$   
 $b = 1$   
 $y = -\frac{1}{3}x + 1$

**J**  $m = \frac{1-5}{1-2} = \frac{-4}{-1} = 4$   
 $b = -9$   
 $y = 4x - 9$

**K** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-2, -2)$  &  $(4, 2)$

**L** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-3, 1)$  &  $(0, -8)$

**M** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(7, 2)$  &  $(2, 12)$

**N** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-1, 2)$  &  $(2, -1)$

**O** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-2, -2)$  &  $(4, 2)$

**P** Write the equation of the line in slope intercept form that goes through the two points below.  
 $(7, 2)$  &  $(2, 12)$

**Math with Ms. Rivera**

© Malia Rivera 2025

Answers printed on the back!

© Malia Rivera, 2025

why do you need this?



Task cards are an effective, low-prep way to create engaging and interactive learning experience



Task cards are very versatile because they cater to a wide range of student needs

# Slope Intercept Form from 2 Points Task Cards

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

**WRITING SLOPE INTERCEPT FORM GIVEN 2 POINTS TASK CARDS RECORDING SHEET**

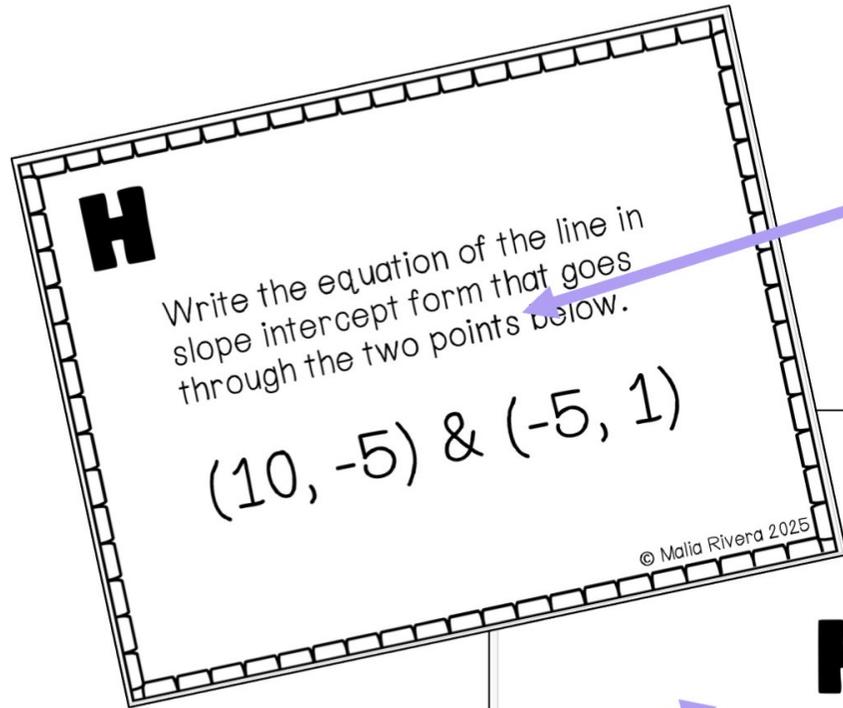
Directions: Using the two points, write the equation of the line in slope intercept form. Show your work in the boxes below.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>

**A**  
Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-3, 1) \text{ \& } (0, -8)$   
© Malia Rivera 2025

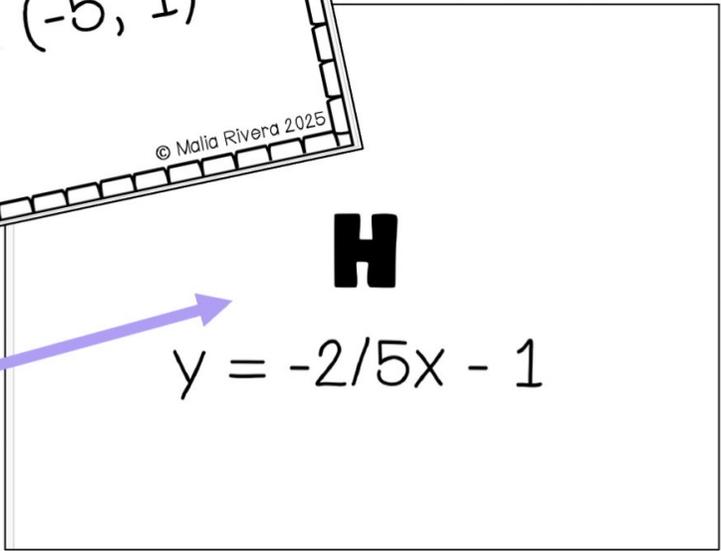
**K**  
Write the equation of the line in slope intercept form that goes through the two points below.  
 $(-2, -2) \text{ \& } (4, -8)$   
© Malia Rivera 2025

# Slope Intercept Form from 2 Points Task Cards *includes:*



Front with question

Print with answer on back



- ✓ set of 16 task cards
- ✓ a recording sheet for students to show their work
- ✓ a detailed answer key
- ✓ Printing tips to print the answers on the back of the corresponding question cards

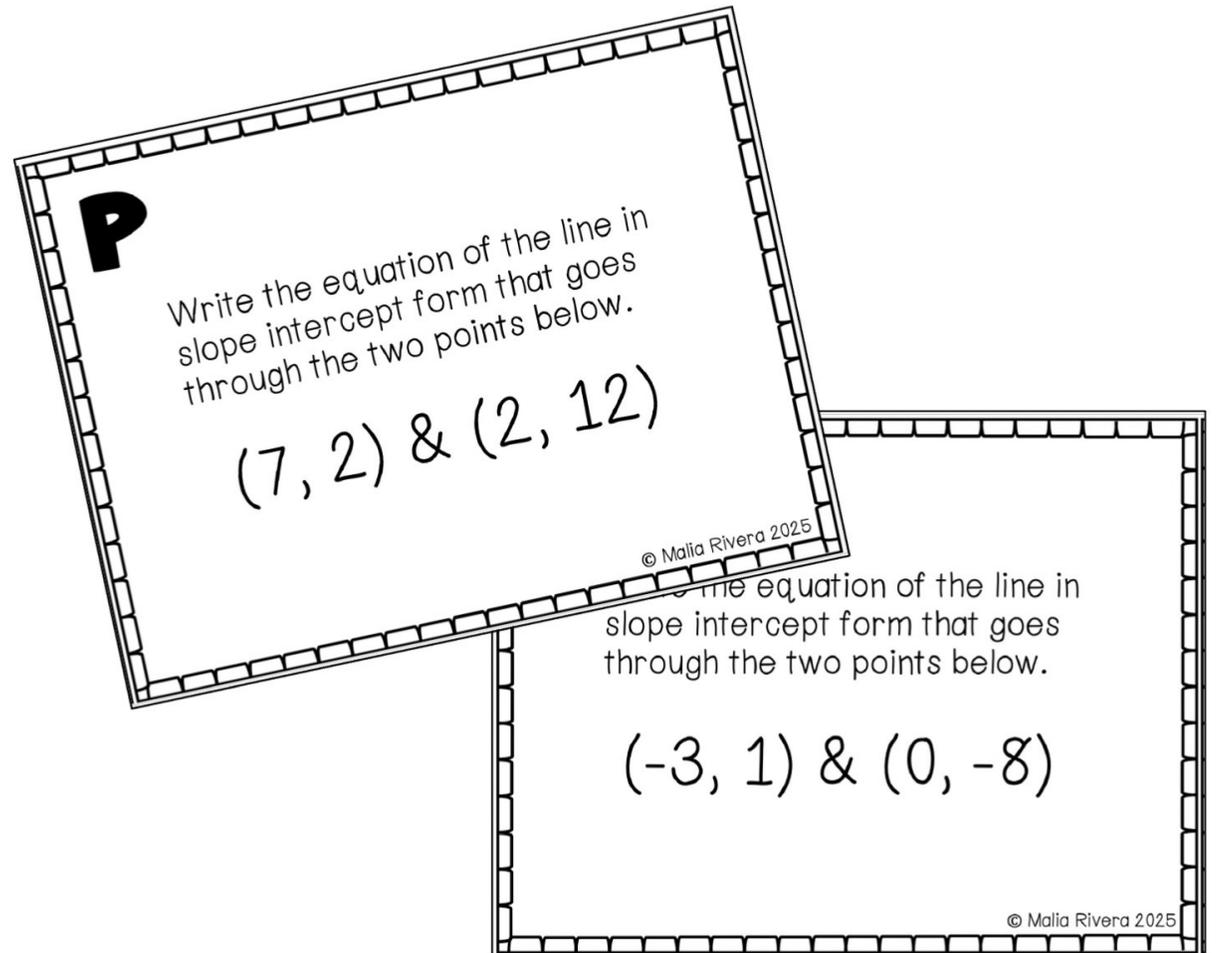
# Slope Intercept Form from 2 Points Task Cards

standards covered:

**CCSS:** HSA-CED.A.2

**TEKs:** A1.2.B

**VA SOLs:** EI.A.6.b



# how to use this resource

This is a great individual practice activity to use when reviewing how to writing linear equations in slope intercept form from 2 points.

You can also use this in small groups, match centers, or as a scavenger hunt.

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

Name: ANSWER KEY Date: \_\_\_\_\_ Pd: \_\_\_\_\_

**WRITING SLOPE INTERCEPT FORM GIVEN 2 POINTS TASK CARDS RECORDING SHEET**

Directions: Using the two points, write the equation of the line in slope intercept form. Show your work in the boxes below.

<b>A</b> $m = \frac{-8-1}{0+3} = \frac{-9}{3} = -3$ $b = -8$ $y = -3x - 8$	<b>B</b> $m = \frac{-5-7}{0+2} = \frac{-12}{2} = -6$ $b = -5$ $y = -6x - 5$	<b>C</b> $m = \frac{1-5}{1.5-0} = \frac{-4}{1.5} = -\frac{8}{3}$ $b = 5$ $y = -\frac{8}{3}x + 5$	<b>D</b> $m = \frac{-24-0}{0+6} = \frac{-24}{6} = -4$ $b = -24$ $y = -4x - 24$
<b>G</b> $m = \frac{9-2}{4-3} = \frac{7}{1} = 7$ $2 = 7(3) + b$ $2 = 21 + b$	<b>H</b> $m = \frac{1+5}{-5-10} = \frac{6}{-15} = -\frac{2}{5}$ $1 = -5(-\frac{2}{5}) + b$ $1 = 2 + b$		

## TIPS FOR USE

When printing this set of task cards, be sure to select "short-edged binding" when printing on both sides. This will allow the answers to be printing on the back of the corresponding card.

After printing, I highly recommend laminating the task cards to they can be used in the future.

**A**

Write the equation of the line in slope intercept form that goes through the two points below.

$(-3, 1) \text{ \& \ } (0, -8)$

© Malia Rivera 2025

You may also enjoy ...

## SLOPE-INTERCEPT FORM FROM 2 POINTS CHOICE BOARD

Writing in Slope-Intercept Form from 2 Points

Directions: Given the two points, write the equation in slope-intercept form. Show your work in the boxes.

(0, 7) & (0, 7)	(0, -5) & (3, 0)	(0, 0) & (0, 0)
(1, 4) & (5, 6)	(1, 4) & (5, 6)	(1, 4) & (5, 6)
(-1, -1) & (9, 4)	(-1, -1) & (9, 4)	(-1, -1) & (9, 4)
(-2, -3) & (-4, -6)	(-2, -3) & (-4, -6)	(-2, -3) & (-4, -6)

**ANSWER KEY**

Writing in Slope-Intercept Form

Directions: Given the two points, write the equation in slope-intercept form. Show your work in the boxes.

(-4, 0) & (0, 7) $m = \frac{7-0}{0-(-4)} = \frac{7}{4}$ $b = 7$ $y = \frac{7}{4}x + 7$	(0, -5) & (3, 0) $m = \frac{0-(-5)}{3-0} = \frac{5}{3}$ $b = -5$ $y = \frac{5}{3}x - 5$
(1, 4) & (5, 6) $m = \frac{6-4}{5-1} = \frac{2}{4} = \frac{1}{2}$ $b = 4 - \frac{1}{2}(1) = \frac{7}{2}$ $y = \frac{1}{2}x + \frac{7}{2}$	(1, 4) & (5, 6) $m = \frac{6-4}{5-1} = \frac{2}{4} = \frac{1}{2}$ $b = 4 - \frac{1}{2}(1) = \frac{7}{2}$ $y = \frac{1}{2}x + \frac{7}{2}$
(-1, -1) & (9, 4) $m = \frac{4-(-1)}{9-(-1)} = \frac{5}{10} = \frac{1}{2}$ $b = -1 - \frac{1}{2}(-1) = -\frac{1}{2}$ $y = \frac{1}{2}x - \frac{1}{2}$	(-1, -1) & (9, 4) $m = \frac{4-(-1)}{9-(-1)} = \frac{5}{10} = \frac{1}{2}$ $b = -1 - \frac{1}{2}(-1) = -\frac{1}{2}$ $y = \frac{1}{2}x - \frac{1}{2}$
(-2, -3) & (-4, -6) $m = \frac{-6-(-3)}{-4-(-2)} = \frac{-3}{-2} = \frac{3}{2}$ $b = -3 - \frac{3}{2}(-2) = 0$ $y = \frac{3}{2}x$	(-2, -3) & (-4, -6) $m = \frac{-6-(-3)}{-4-(-2)} = \frac{-3}{-2} = \frac{3}{2}$ $b = -3 - \frac{3}{2}(-2) = 0$ $y = \frac{3}{2}x$

Math with Ms. Rivera

© Malia Rivera, 2021

## WRITING IN SLOPE INTERCEPT FORM FROM GRAPHS 12 TASK CARDS

WRITING LINEAR EQUATIONS IN SLOPE INTERCEPT FORM FROM GRAPHS

ANSWER KEY

Directions: Identify the slope, y-intercept and write the equation in slope-intercept form.

1. Slope: <b>3</b> Y-Intercept: <b>(0, 3)</b> Equation: <b><math>y = 3x + 3</math></b>	2. Slope: <b>1</b> Y-Intercept: <b>(0, 5)</b> Equation: <b><math>y = x + 5</math></b>
3. Slope: <b>-3</b> Y-Intercept: <b>(0, 4)</b> Equation: <b><math>y = -3x + 4</math></b>	4. Slope: <b>-3/2</b> Y-Intercept: <b>(0, -2)</b> Equation: <b><math>y = -3/2x - 2</math></b>
5. Slope: <b>-1/4</b> Y-Intercept: <b>(0, 5)</b> Equation: <b><math>y = -1/4x + 5</math></b>	6. Slope: <b>4</b> Y-Intercept: <b>(0, 5)</b> Equation: <b><math>y = 4x + 5</math></b>

#11 Write the equation of the line in slope-intercept form.

#2 Write the equation of the line in slope-intercept form.

#5 Write the equation of the line in slope-intercept form.

Answers printed on the back!

Math with Ms. Rivera

© Malia Rivera, 2025

## CHOICE BOARDS BUNDLE Writing Linear Functions

Writing in Slope-Intercept Form

Directions: Given the two points, write the equation in slope-intercept form. Show your work in the boxes.

(-3, 5) & m = -1	(-4, 0) & (0, 7)	(0, -5) & (3, 0)
(-5, 6) & m = -4	(-1, -1) & (9, 4)	(1, 4) & (5, 6)
(-2, 8) & m = 3	(-4, -7) & (2, -3)	(-3, -3) & (2, 0)
(-4, 5) & m = -1	(-1, -1) & (9, 4)	(1, 4) & (5, 6)

Algebra I

Math with Ms. Rivera

© Malia Rivera, 2021

# 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!

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**ADDING & SUBTRACTING RATIONAL EXPRESSIONS**  
Directions: Add or subtract the rational expressions. Show your work.

**Solving Systems of Equations**  
Date: \_\_\_\_\_  
Solve systems of equations using substitution or elimination. Check your solution.  
2.  $2x - 6y = -18$   
 $x = 3y - 9$   
 $2(3y - 9) - 6y = -18$   
 $6y - 18 - 6y = -18$   
 $-18 = -18$   
infinitely many solutions

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**SOLVING SYSTEMS OF EQUATIONS**  
Solve systems of equations using substitution or elimination. Check your solution.  
 $y = 2 + 5$   
 $y = 7$   
 $(2, 7)$

**Multiplying & Dividing Rational Expressions**  
Date: \_\_\_\_\_  
Directions: Multiply or divide the rational expressions. Show your work.

**Rational Expression Operations - Addition & Subtraction**  
Directions: Answer each question and type the question number with the matching answer in the answer column to the right.

#	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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

(c) Malia Rivera, 2024



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!

Did you know you could get **FREE** money from TPT??

All you need to do is leave feedback on the product after you purchase. [Click here](#) to leave reviews and earn credits towards your next TPT purchase!

let's connect!



Follow my TPT store



Follow my Instagram



Email me