

keep scrolling to get  
a sneak peek!

Help your Algebra 1 students  
practice **writing linear  
equations in slope intercept  
form given a point & slope** with  
this task card activity! Your  
students are going to love this  
football themed, self-checking  
activity!

# WRITING IN SLOPE INTERCEPT FORM FROM POINT & SLOPE

## 12 TASK CARDS

**ANSWER KEY**

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

Directions: Use the given slope and point to write a linear equation in slope-intercept form. Use the boxes provided.

#1  
 $3 = -4(-1) + b$   
 $3 = 4 + b$   
 $-4 -4$   
 $-1 = b$   
 $y = -4x - 1$

#2  
 $1 = 2(5) + b$   
 $1 = 10 + b$   
 $-10 -10$   
 $-9 = b$   
 $y = 2x - 9$

#3  
 $7 = -5(-4) + b$   
 $7 = 20 + b$   
 $-20 -20$   
 $-13 = b$   
 $y = -5x - 13$

#4  
 $2 = 3(1) + b$   
 $2 = 3 + b$   
 $-3 -3$   
 $-1 = b$   
 $y = 3x - 1$

#5  
 $-4 = -\frac{3}{4}(8) + b$   
 $-4 = -6 + b$   
 $+6 +6$   
 $2 = b$   
 $y = -\frac{3}{4}x + 2$

#6  
 $-11 = \frac{1}{2}(3) + b$   
 $-11 = \frac{3}{2} + b$   
 $-\frac{3}{2} -\frac{3}{2}$   
 $-11 - \frac{3}{2} = b$   
 $b = -\frac{25}{2}$   
 $y = \frac{1}{2}x - \frac{25}{2}$

#7  
Write the equation in slope intercept form given the point and the slope.  
 $m = -6$  &  $(-1, 1)$

#8  
Write the equation in slope intercept form given the point and the slope.  
 $m = -4$  &  $(1, 1)$

#9  
 $-8 = 3(-2) + b$   
 $-8 = -6 + b$   
 $+6 +6$   
 $-2 = b$   
 $y = 3x - 2$

#10  
 $3 = -\frac{1}{2}(8) + b$   
 $3 = -4 + b$   
 $+4 +4$   
 $7 = b$   
 $y = -\frac{1}{2}x + 7$

#11  
 $-1 = -8 + 8 + b$   
 $-1 = -8 + 8 + b$   
 $+8 +8$   
 $7 = b$   
 $y = -2x + 7$

#12  
Write the equation in slope intercept form given the point and the slope.  
 $m = \frac{4}{3}$  &  $(-6, 5)$

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Math  
with Ms. Rivera

Answers printed on the back!

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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 a Point & Slope Task Cards

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

**WRITING EQUATIONS IN SLOPE-INTERCEPT FORM FROM A SLOPE & A POINT**

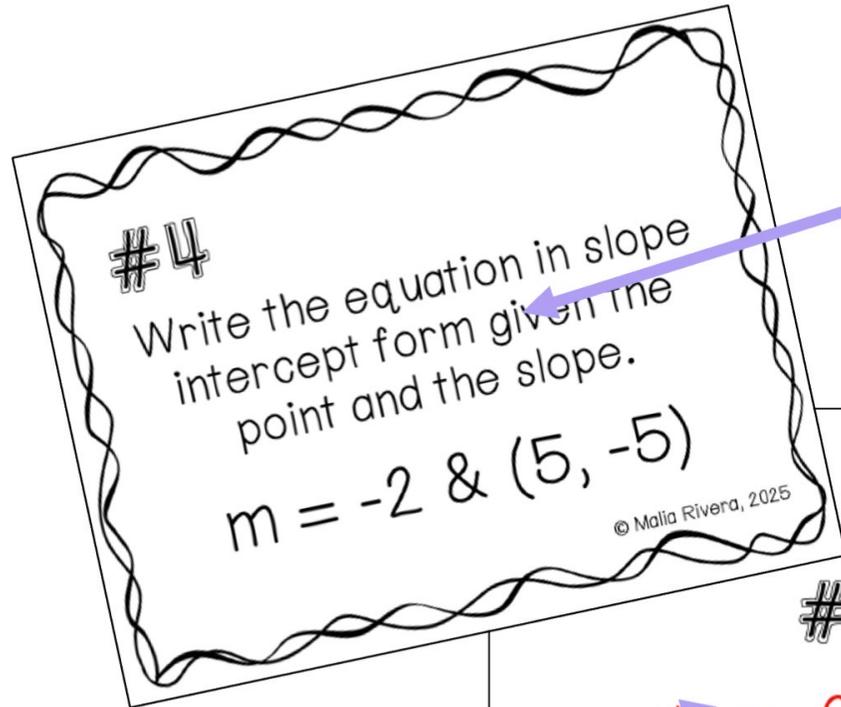
Directions: Use the given slope and point to write a linear equation in slope-intercept form. Use the boxes below to show your work.

#1	#2	#3	#4
#5	#6	#7	#11

**#1**  
Write the equation in slope intercept form given the point and the slope.  
 $m = -4$  &  $(-1, 3)$   
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**#12**  
Write the equation in slope intercept form given the point and the slope.  
 $m = 4/3$  &  $(-6, 5)$   
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# Slope Intercept Form from a Point & Slope Task Cards *includes:*



Front with question

#4

$$y = -2x + 5$$

Print with answer on back

- ✓ set of 12 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

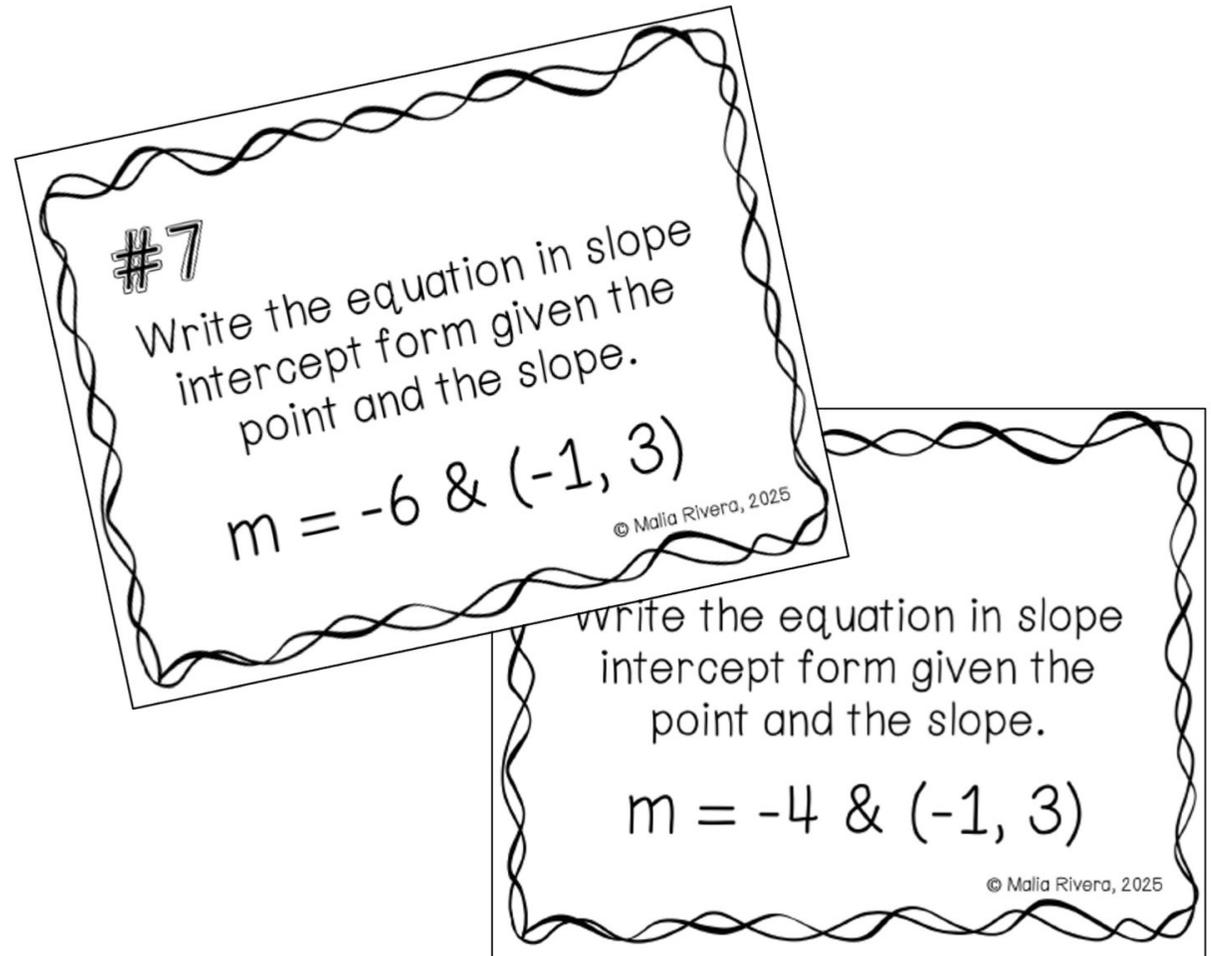
# Slope Intercept Form from a Point & Slope Task Cards

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 write a linear equations in slope intercept form given a point and slope.

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 EQUATIONS IN SLOPE-INTERCEPT FORM FROM A SLOPE & A POINT**

Directions: Use the given slope and point to write a linear equation in slope-intercept form. Use the boxes below to show your work.

#1 $3 = -4(-1) + b$ $3 = 4 + b$ $-4 -4$ $-1 = b$ $y = -4x - 1$	#2 $1 = 2(5) + b$ $1 = 10 + b$ $-10 -10$ $-9 = b$ $y = 2x - 9$	#3 $7 = -5(-4) + b$ $7 = 20 + b$ $-20 -20$ $-13 = b$ $y = -5x - 13$	#4 $-5 = -2(5) + b$ $-5 = -10 + b$ $+10 +10$ $5 = b$ $y = -2x + 5$
#5 $-4 = -\frac{3}{4}(8) + b$ $-4 = -6 + b$ ...	#6 b	#7 $3 = -6(-1) + b$ $3 = 6 + b$ $-6 -6$ $-3 = b$ $y = -6x - 3$	#8 $1 = -4(1) + b$ $1 = -4 + b$ $+4 +4$ $5 = b$ $y = -4x + 5$
#11 $-1 = -2(4) + b$	#12 $5 = \frac{4}{3}(-6) + b$		

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## 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.

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to can

# You may also enjoy...

## SLOPE-INTERCEPT FORM FROM A POINT & SLOPE

### Choice Board

**ANSWER KEY**

Point	Slope	Equation
(-1, 6) & m = 5	5	$y - 6 = 5(x + 1)$ $y - 6 = 5x + 5$ $y = 5x + 11$
(-2, 1) & m = 1	1	$y - 1 = 1(x + 2)$ $y - 1 = x + 2$ $y = x + 3$
(10, 3) & m = 3	3	$y - 3 = 3(x - 10)$ $y - 3 = 3x - 30$ $y = 3x - 27$
(-3, 2) & m = -1	-1	$y - 2 = -1(x + 3)$ $y - 2 = -x - 3$ $y = -x - 1$
(-2, 1) & m = 1	1	$y - 1 = 1(x - 2)$ $y - 1 = x - 2$ $y = x - 1$
(2, -3) & m = 7	7	$y + 3 = 7(x - 2)$ $y + 3 = 7x - 14$ $y = 7x - 17$
(-3, 2) & m = -1	-1	$y - 2 = -1(x + 3)$ $y - 2 = -x - 3$ $y = -x - 1$
(-4, -9) & m = -2	-2	$y + 9 = -2(x + 4)$ $y + 9 = -2x - 8$ $y = -2x - 17$

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## SLOPE INTERCEPT FORM WORD PROBLEMS

Question	Slope Intercept Form Equation	Answer (no units)
An ice cream store charges \$2.50 for an ice cream cone and \$0.25 for each topping. If you get 2 toppings on your ice cream, how much would you pay?		
The temperature at 5pm is 54 degrees & expected to drop at a rate of 2 degrees per hour. What should the temperature be at 8pm?		
Jo pays \$3 to rent ice skates and \$15 per hour to skate. If she skates for 2 hours, how much does she pay in total?		
John has a 32 ounce water bottle and fills it at a rate of 4 ounces per second. If it is empty, how many ounces are in his water bottle after 4 seconds?		
A rental company charges \$25.00 to rent a bike and \$0.20 per mile to rent a bike. How much does it cost to rent a bike and ride it for 30 miles?		
An Amazon driver has 50 packages to deliver. He delivers 3 packages per hour. How many packages will he have left after 3 hours?		
We started knitting blankets and have made 10. You can knit 2 blankets a day. How many blankets will you have after 30 days?		

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**Self-Checking**

## 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:  $y = 2/3x - 5$

<input type="text"/>				
<input type="text"/>				

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**Self-Checking**

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check it out!

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**ADDING & SUBTRACTING RATIONAL EXPRESSIONS**  
Directions: Simplify each rational expression. Show your work.

**Solving Systems of Equations**  
Date: \_\_\_\_\_  
Solve each system of equations using substitution or elimination. Check your solution.  
2.  $2x - 6y = -18$   
 $x = 3y - 9$   
4.  $2x + 6y = -1$   
 $y = -2x + 3$

**Answer Key**  
Name: \_\_\_\_\_ Date: \_\_\_\_\_  
**SOLVING SYSTEMS OF EQUATIONS**  
Solve each system 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  
 $y = 2 + 5$   
 $y = 7$   
 $(2, 7)$

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

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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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