

keep scrolling to get  
a sneak peek!

Help your Algebra 1 students  
practice writing linear equations  
that are **parallel or  
perpendicular to another line  
and pass through a certain  
point** with this task card activity!  
Your students are going to love  
this self-checking activity!

# WRITING PARALLEL & PERPENDICULAR EQUATIONS

## 12 Task Cards

**ANSWER KEY**  
WRITING PARALLEL & PERPENDICULAR LINE EQUATIONS TASK CARDS RECORDING SHEET  
Date: \_\_\_\_\_  
Directions: Write the equation of the line that is parallel or perpendicular to the given line and point. Show your work in the boxes below.

#1 //m=2, (-1,1)  
 $1 = 2(-1) + b$   
 $1 = -2 + b$   
 $+2 \quad +2$   
 $3 = b$   
 $// y = 2x + 3$

#2  $\perp m = -3$ , (-1,0)  
 $0 = -3(-1) + b$   
 $0 = 3 + b$   
 $-3 \quad -3$   
 $-3 = b$   
 $y = \frac{1}{3}x$

#3 //m=3, (-2,-2)  
 $-2 = 3(-2) + b$   
 $-2 = -6 + b$   
 $+6 \quad +6$   
 $4 = b$   
 $y = 3x + 4$

#4  $\perp m = -\frac{3}{2}$ , (2,-1)  
 $-1 = -\frac{3}{2}(2) + b$   
 $-1 = -3 + b$   
 $+3 \quad +3$   
 $2 = b$   
 $y = -\frac{3}{2}x + 2$

#8 Write the equation of the line that passes through (3, -2) and is perpendicular to  $y = \frac{1}{2}x$ .

#12 Write the equation of the line that passes through (5, 4) and is perpendicular to  $y = x - 3$ .

#2 Write the equation of the line that passes through (-1, 0) and is perpendicular to  $y = \frac{1}{3}x$ .



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

# Parallel & Perpendicular Lines Task Cards

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

**WRITING PARALLEL & PERPENDICULAR LINE EQUATIONS TASK CARDS RECORDING SHEET**

Directions: Write the equation of the line that is parallel or perpendicular to the given line and point. Show your work in the boxes below.

#1	#2
#3	#4
#5	#6

#11

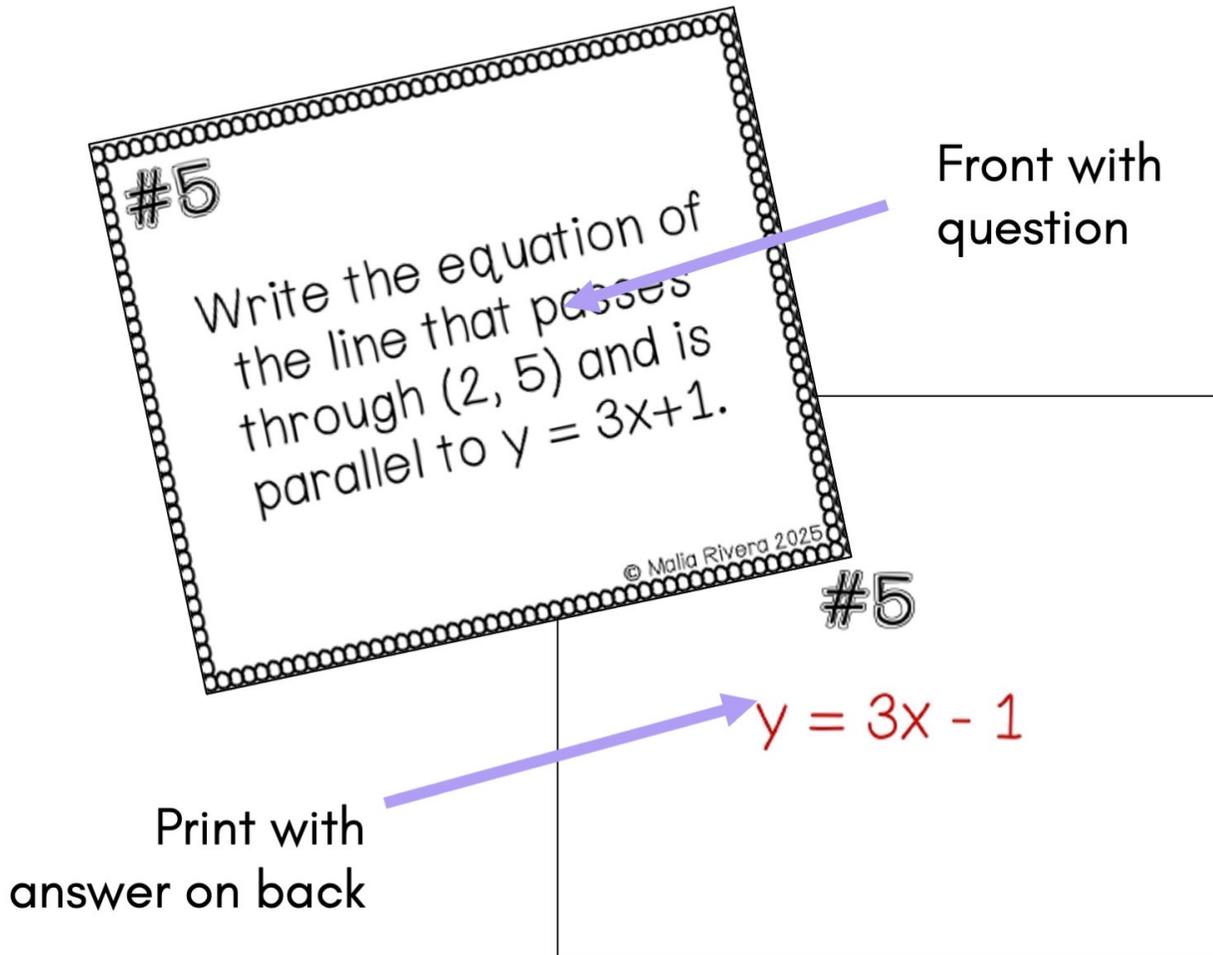
Write the equation of the line that passes through  $(-3, 5)$  and is parallel to  $y = -\frac{5}{3}x - 3$ .

#5

Write the equation of the line that passes through  $(2, 5)$  and is parallel to  $y = 3x + 1$ .

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# Parallel & Perpendicular Lines Task Cards *includes:*



- ✓ 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

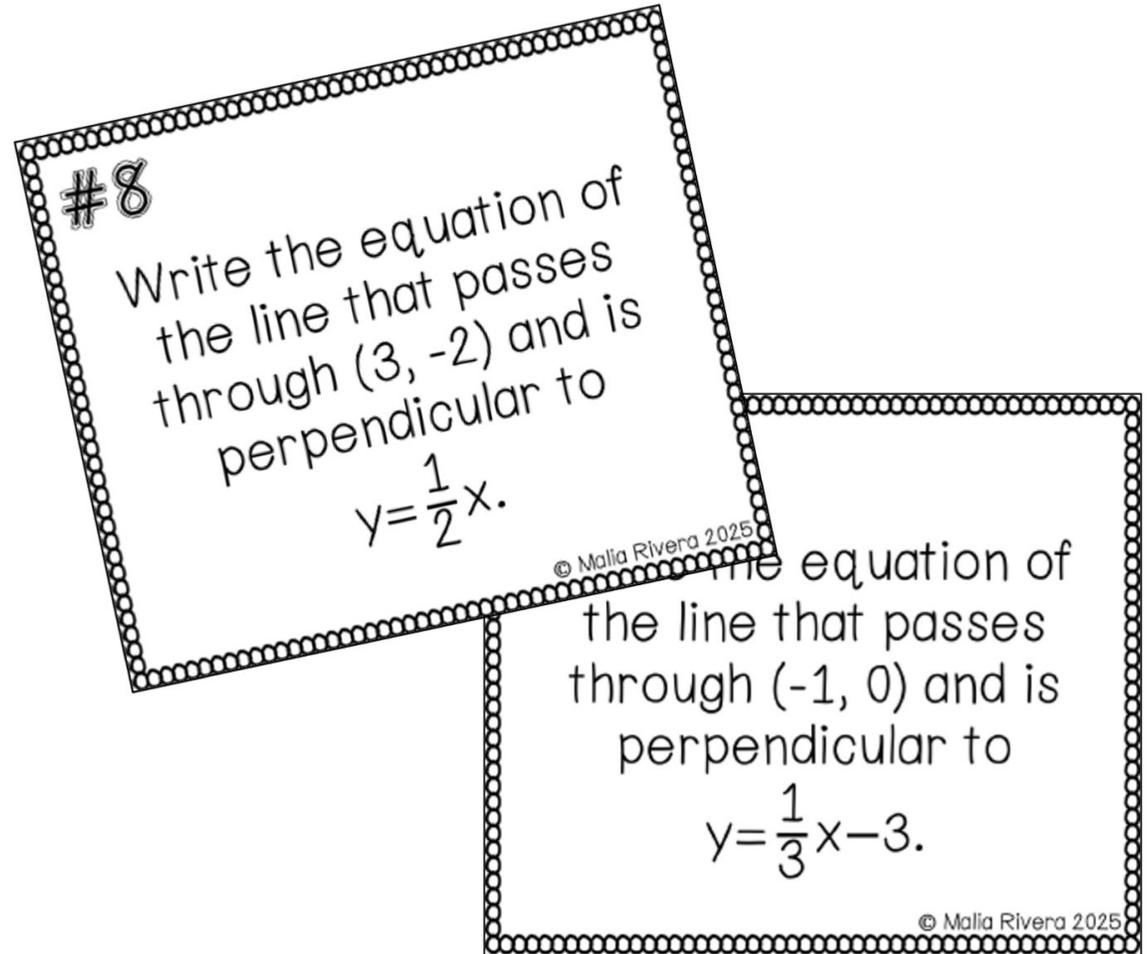
# Parallel & Perpendicular Lines Task Cards

standards covered:

**CCSS:** HSA-CED.A.2,  
HSG-G.B.5

**TEKs:** A1.2.E, A1.2.F

**VA SOLs:** E1.A.6.b



# how to use this resource

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

**ANSWER KEY**

**WRITING PARALLEL & PERPENDICULAR LINE EQUATIONS TASK CARDS RECORDING SHEET**

Directions: Write the equation of the line that is parallel or perpendicular to the given line and point. Show your work in the boxes below.

#1 // $m = 2$ , $(-1, 1)$ $1 = 2(-1) + b$ $1 = -2 + b$ $+2 \quad +2$ $3 = b$ $// y = 2x + 3$	#2 $\perp m = -3$ , $(-1, 0)$ $0 = -3(-1) + b$ $0 = 3 + b$ $-3 \quad -3$ $-3 = b$ $\perp y = -3x - 3$
	$\perp m = -\frac{3}{2}$ , $(2, -1)$ $-1 = -\frac{3}{2}(2) + b$ $-1 = -3 + b$ $3 \quad +3$ $2 = b$ $\perp y = -\frac{3}{2}x + 2$

## 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 so they can be used in the future.

their work on  
to can

**#12**

Write the equation of the line that passes through  $(5, 4)$  and is perpendicular to  $y = x - 3$ .

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This is a great individual practice activity to use when reviewing how to writing parallel & perpendicular lines that go through specific points.

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

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

You may also enjoy ...

## PARALLEL & PERPENDICULAR EQUATIONS

DIGITAL & PRINT ACTIVITY PACK

4 ACTIVITIES

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## PARALLEL & PERPENDICULAR EQUATIONS

CHOICE BOARD

ANSWER KEY

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## PARALLEL, PERPENDICULAR, NEITHER DRAG & DROP

drag & drop the purple circle over the correct answer.

$$3x + y = 6$$

$$3y = 2x + 18$$

PARALLEL    PERPENDICULAR

NEITHER

---

$$-y + 3x = 16$$

$$y - 3x = 30$$

PARALLEL    PERPENDICULAR

NEITHER

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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 collage features several algebra worksheets. One prominent worksheet is titled "Rational Expression Operations - Addition & Subtraction" and includes a self-checking grid. The grid has 8 rows of questions and 3 columns: "Question", "Answer", and "Type the matching question numbers here". A path of colored lines (teal, yellow, purple) starts at question 1 and ends at question 8, indicating a sequence of correct 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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

Other worksheets visible in the background include "Answer Key" for "ADDING & SUBTRACTING RATIONAL EXPRESSIONS", "SOLVING SYSTEMS OF EQUATIONS", and "MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS".



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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