

keep scrolling to
get a sneak peek!

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

POINT-SLOPE FORM FROM A POINT & SLOPE CHOICE BOARD

Date: _____ Period: _____

Name: _____ **ANSWER KEY** Date: _____

Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose one problem from each column. Show your work in the boxes.

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

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose one problem from each column. Show your work in the boxes.

$(1, 9) \text{ \& } m = -3$ $y - 9 = -3(x - 1)$	$(-3, 5) \text{ \& } m = -1$ $y - 5 = -1(x + 3)$
$(-2, 5) \text{ \& } m = -4$ $y - 5 = -4(x + 2)$	$(-5, 6) \text{ \& } m = 4$ $y - 6 = 4(x + 5)$
$(-2, 8) \text{ \& } m = 3$ $y - 8 = 3(x + 2)$	$(-4, -7) \text{ \& } m =$ $y + 7 = -\frac{1}{2}(x +$

Math
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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.

Writing in Point Slope Form from a Point & Slope Choice Board

Name: _____ Date: _____ Period: _____

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose problems from each column. Show your work in the boxes.

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

ANSWER KEY

Name: _____ Date: _____ Period: _____

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose problems from each column. Show your work in the boxes.

(1, 9) & $m = -3$ $y - 9 = -3(x - 1)$	(-3, 5) & $m = -1$ $y - 5 = -1(x + 3)$	(4, 10) & $m = 2$ $y - 10 = 2(x - 4)$
(-2, 5) & $m = -4$ $y - 5 = -4(x + 2)$	(-5, 6) & $m = 4$ $y - 6 = 4(x + 5)$	(-3, 5) & $m = -1$ $y - 5 = -1(x + 3)$
(-2, 8) & $m = 3$ $y - 8 = 3(x + 2)$	(-4, -7) & $m = -1/2$ $y + 7 = -\frac{1}{2}(x + 4)$	(-5, 6) & $m = 4$ $y - 6 = 4(x + 5)$
(0, 15) & $m = -4/5$ $y - 15 = -\frac{4}{5}x$	(-1, -1) & $m = -1/2$ $y + 1 = -\frac{1}{2}(x + 1)$	(-4, -7) & $m = -1/2$ $y + 7 = -\frac{1}{2}(x + 4)$
(6, 2) & $m = 3/4$ $y - 2 = \frac{3}{4}(x - 6)$	(3, -3) & $m = 2/3$ $y + 3 = \frac{2}{3}(x - 3)$	(-1, -1) & $m = -1/2$ $y + 1 = -\frac{1}{2}(x + 1)$

Writing in Point Slope Form from a Point & Slope Choice Board *includes:*

Name: _____ Date: _____ Period: _____

Writing in Point-Slope Form from a Point & Slope

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$(1, 9) \text{ \& } m = -3$	$(-3, 5) \text{ \& } m = -1$	$(4, 10) \text{ \& } m = 2$
$(-2, 5) \text{ \& } m = -4$	$(-6) \text{ \& } m = 4$	$(-9, 2) \text{ \& } m = -5$
$(-2, 8) \text{ \& } m = 3$	$(-4, -7) \text{ \& } m = -1/2$	$(6, -4) \text{ \& } m = 2/3$
$(0, 15)$		

- ✓ 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 in Point Slope Form from a Point & Slope Choice Board

standards covered:

CCSS: HSA-CED.A.2

TEKs: A1.2.B

VA SOLs: E1.A.6.b

Name: _____ Date: _____ Period: _____

ANSWER KEY

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose problems from each column. Show your work in the boxes.

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

how the choice board resource works

Name: _____ Date: _____ Period: _____

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose _____ problems from each column. Show your work in the boxes.

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

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

Name: _____ **ANSWER KEY** _____ Date: _____ Period: _____

Writing in Point-Slope Form from a Point & Slope

Directions: Given the point and slope, write the equation in point-slope form. Choose _____ problems from each column. Show your work in the boxes.

(1, 9) & m = -3 $y - 9 = -3(x - 1)$	(-3, 5) & m = -1 $y - 5 = -1(x + 3)$	(4, 10) & m = 2 $y - 10 = 2(x - 4)$
(-2, 5) & m = -4 $y - 5 = -4(x + 2)$	Name: _____ Date: _____ Period: _____	
	<i>Writing in Point-Slope Form from a Point & Slope</i>	
	Directions: Given the point and slope, write the equation in point-slope form. Choose _____ problems from each column. Show your work in the boxes.	
(-2, 8) & m = 3 $y - 8 = 3(x + 2)$	(1, 9) & m = -3	(-3, 5) & m = -1
(0, 15) & m = -4/5 $y - 15 = -\frac{4}{5}x$	(-2, 5) & m = -4	(-5, 6) & m = 4
(6, 2) & m = 3/4 $y - 2 = \frac{3}{4}(x - 6)$	(-2, 8) & m = 3	(-4, -7) & m = -1/2
		(4, 10) & m = 2
		(-9, 2) & m = -5
		(6, -4) & m = 2/3

This is a great individual practice activity to use when reviewing how to write linear equations in point-slope form given 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!

You may also enjoy ...

GRAPHING IN POINT-SLOPE FORM

collaborative Tessellation

POINT-SLOPE FORM
Given the linear equation in slope-intercept form, graph the line on the coordinate plane. Write the equation of the line in point-slope form.

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student work bulletin board

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WRITING IN POINT-SLOPE FORM REVIEW

#	Question	Answer
1	$(-1, -1)$ & $m = -3/2$	
2	$(3, -5)$ & $m = -2/3$	
3	$(4, 4)$ & $(1, -2)$	
4	$(5, 5)$ & $m = 3/4$	
5	$(5, -1)$ & $m = 2$	
6	$(-2, 3)$ & $(-3, -3)$	
7	$(-2, 5)$ & $m = -4$	
8	$(3, 1)$ & $m = -1/3$	
9	$(-4, -1)$ & $(4, -4)$	
10	$(2, 6)$ & $m = 2/5$	
11	$(-1, -2)$ & $m = 4$	
12	$(1, -4)$ & $(2, -2)$	

Directions: Write the equation in point-slope form given the information. Answer each question correctly and pixels will appear to reveal a picture!

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Self-Checking

WRITING IN POINT-SLOPE FORM

Digital & Print Activity Pack

5 Activities

Writing Point-Slope Form from Graphs

Directions: Write the equation of each graph in point-slope form. Choose _____ problems from each column.

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

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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** with handwritten solutions like $\frac{2x-8}{x^2-10}$.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** with handwritten solutions like $\frac{x^2-x+3x-6}{(x-1)(x-2)}$.
- SOLVING SYSTEMS OF EQUATIONS** with handwritten solutions like $y=2+5$, $y=7$, and $(2, 7)$.

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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