

keep scrolling to
get a sneak peek!

Help your Algebra students practice solving systems of equations using the **substitution method** with this task card activity! Your students are going to love this independent, self-checking activity!

SYSTEMS OF EQUATIONS BY SUBSTITUTION

20 TASK CARDS

SOLVING SYSTEMS OF EQUATIONS BY SUBSTITUTION TASK CARDS RECORDING SHEET
Directions: Solve each system of equation using the substitution method. Show your work in the space provided.

Answer Key

#7 $\begin{cases} 2x = 12 \\ x = 6 \end{cases}$ $\begin{cases} 6 - 5y = -29 \\ -6 - 5y = -35 \\ -5y = -35 \\ y = 7 \end{cases}$ $(6, 7)$

#8 $\begin{cases} x - 9 = -1 \\ x + 9 = 9 \end{cases}$ $\begin{cases} x - 9 = -1 \\ x = 8 \end{cases}$ $(8, -7)$

#10 $\begin{cases} 2x + y = 9 \\ -2x - 2y = 9 \end{cases}$ $\begin{cases} y = -2x + 9 \\ 4x - (-2x + 9) = -15 \\ 4x + 2x - 9 = -15 \\ 6x - 9 = -15 \\ 6x - 9 = -15 \\ +9 +9 \\ 6x = -6 \\ x = -1 \end{cases}$ $(-1, 11)$

#11 $\begin{cases} x + y = -3 \\ -x - y = -3 \end{cases}$ $\begin{cases} x + y = -3 \\ 5x + 2(-x - 3) = 9 \\ 5x - 2x - 6 = 9 \\ 3x - 6 = 9 \\ +6 +6 \\ 3x = 15 \\ x = 5 \end{cases}$ $(5, -8)$

#19 $\begin{cases} 5x - 4y = 10 \\ -2x + y = 7 \end{cases}$ $(4, 3)$

#4 Solve the system of equations using substitution.
 $\begin{cases} 4x - 7y = 10 \\ y = x - 7 \end{cases}$

#9 Solve the system of equations using substitution.
 $\begin{cases} x + y = 0 \\ x - 2y = 6 \end{cases}$

Math with Ms. Rivera

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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

Systems of Equations - Substitution Task Cards

Answer Key

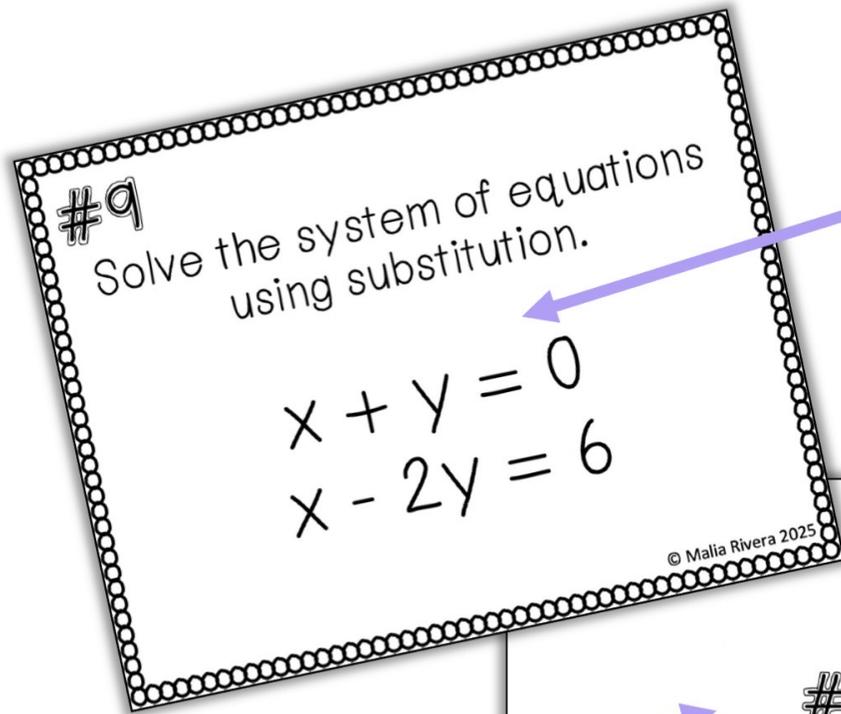
SOLVING SYSTEMS OF EQUATIONS BY SUBSTITUTION TASK CARDS RECORDING SHEET

Directions: Solve each system of equation using the substitution method. Show your work in the boxes below.

#7 $\begin{array}{r} 2x=12 \\ \underline{2} \\ x=6 \end{array}$ $\begin{array}{r} 6-5y=-29 \\ -6 \quad -6 \\ \underline{-5y=-35} \\ -5 \\ y=7 \end{array}$ $(6, 7)$	#8 $\begin{array}{r} x-9=-1 \\ +9 \quad +9 \\ x=8 \end{array}$ $\begin{array}{r} 2(8)-y=16 \\ 16-y=16 \\ \underline{-y=-0} \\ -y=0 \\ y=0 \end{array}$ $(8, 0)$	#9 $\begin{array}{r} x+y=0 \\ -y \quad -y \\ \underline{-3y=6} \\ -3 \\ y=-2 \end{array}$ $\begin{array}{r} -y-2y=6 \\ -3y=6 \\ \underline{-3} \\ y=-2 \end{array}$ $(-2, 2)$
#10 $\begin{array}{r} 2x+y=9 \\ -2x \quad -2x \\ \underline{y=-2x+9} \\ 4x-(-2x+9)=-15 \end{array}$ $(5, -8)$	#11 $\begin{array}{r} x+y=-3 \\ -x \quad -x \\ \underline{y=-x-3} \end{array}$ $\begin{array}{r} 5x+2(-x-3)=-6 \\ 5x-2x-6=-6 \\ 3x-6=-6 \\ \underline{+6 \quad +6} \\ 3x=0 \\ x=0 \end{array}$ $\begin{array}{r} 5+y=-3 \\ -5 \quad -5 \\ \underline{y=-8} \end{array}$ $(0, -8)$	#19 Solve the system of equations using substitution. $\begin{array}{r} 5x - 4y = 27 \\ -2x + y = 3 \end{array}$ $\begin{array}{r} 5(4)+4y=32 \\ 20+4y=32 \\ \underline{-20 \quad -20} \\ 4y=12 \\ \underline{4} \\ y=3 \end{array}$ $(4, 3)$

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Systems of Equations - Substitution Task Cards *includes:*



Front with question

Print with answer on back

#9
(2, -2)

The image shows the back of the task card. It is a plain white rectangle. A purple arrow points from the text 'Print with answer on back' to the card. The answer is written in red text as $(2, -2)$.

- ✓ set of 20 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

System of Equations – Substitution Task Cards

standards covered:

CCSS: 8.EE.C.8, HSA-REI.A.6

TEKs: A1.5.C

VA SOLs: EI.A.4.d

The image shows two task cards with a decorative dotted border. The top card is tilted and contains the following text:

#14
Solve the system of equations using substitution.
$$20x - 30y = -50$$
$$x + 2y = 1$$

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The bottom card is upright and contains the following text:

Solve the system of equations using substitution.
$$4x - 7y = 10$$
$$y = x - 7$$

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how to use this resource

Name: _____ Date: _____

SOLVING SYSTEMS OF EQUATIONS BY SUBSTITUTION TASK CARDS RECORDING SHEET

Directions: Solve each system of equation using the substitution method. Show your work in the boxes below.

#1	#2	#3
		#6

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.

#6

Solve the system of equations using substitution.

$$\begin{aligned} -5x + 3y &= 51 \\ y &= 10x - 8 \end{aligned}$$

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This is a great individual practice activity to use when reviewing how solve systems of equations using substitution.

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 ...

SYSTEMS OF EQUATIONS BY SUBSTITUTION

#	Question	Answer	#	Questions	Answer
1	$y = -2x + 13$ $y = 4x - 11$		6	$y = 2x - 9$ $x - 6y = -11$	
2	$y = -3x - 3$ $y = 7x + 17$		7	$4x - 5y = 21$ $x - 3y = 21$	
3	$y = 5x - 22$ $7x - 7y = 14$		8	$2x + y = 25$ $3x - 2y = 13$	
4	$-9x - 4y = 0$ $y = -5x + 11$		9	$-2x - 7y = 7$ $-8x + y = -1$	
5	$-6x + 2y = -4$ $y = -9x + 10$		10	$2x + 10y = -20$ $x + 8y = -10$	

Directions: Solve each system of equations using substitution. Type your answer as an ordered pair with no spaces and the picture will...

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Self-Checking

CHOICE BOARDS BUNDLE

SYSTEMS OF EQUATIONS

Systems of Equations Choice Boards

Directions: Choose _____ problems from each column. Solve each system. Show your work in the boxes.

Algebra I

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SYSTEMS OF EQUATIONS BY SUBSTITUTION

Digital & Printable

Solving Systems of Equations by Substitution

Directions: Solve each system of equations using the substitution method. Type your answer as an ordered pair with no spaces and the picture will...

Question	Answer	Question	Answer	Question	Answer	Question	Answer
$y = 12x + 21$ $y = -9x + 21$	$(0, 21)$	$-3x - 9y = -15$ $x + 10y = 12$	$(-1, 1)$	$y = 6x + 27$ $y = -2x + 3$	$(-3, 9)$	$x - 5y = -8$ $-2x - 10y = -24$	$(2, 0)$
$y = -10x + 18$ $y = -2x - 3$	$(-6, 18)$	$x - 2y = 11$ $-11x + 9y = -27$	$(-6, 6)$	$y = -2x - 16$ $y = 2x + 4$	$(-4, 0)$	$-7x - 8y = -20$ $x + 9y = 7$	$(0, 3)$
$-8x - 8y = -18$ $y = -4x - 10$	$(-4, 6)$	$-4x - 10y = -18$ $8x + y = 11$	$(-2, 1)$	$y = 8x - 3$ $-8x + y = -14$	$(-1, 0)$	$-3x + 3y = -21$ $x - 8y = 15$	$(-4, 3)$
$8x + 2y = -8$ $y = -8x + 1$	$(-1, 0)$	$-2x + y = 15$ $11x + 9y = 14$	$(-14, 1)$	$10x + 8y = 24$ $y = -3x + 10$	$(-2, 3)$	$-3x - 2y = -2$ $x - y = 24$	$(-8, 1)$

Solution: $(-1, 0)$

Solution: $(-14, 1)$

Solution: $(-2, 3)$

Solution: $(-8, 1)$

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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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