Parent Resource



Magic Technique for Systems of Linear Equations

Directions

Print this worksheet and have students solve the given problems. This worksheet specifically covers the summultiple method to solve for systems of linear equations.

How to Use the Magic Technique

Step 1: Set the first equation aside for later.

Step 2: Multiply each term in the 2nd equation by any factor. This factor can be your choice (2, 8, 99, -4 etc..).

Step 3: Add the first equation and the new 2nd equation.

Step 4: Use the elimination method to solve the system of equations.

Answer Key

Question 1: (-26, 22)

Question 2: Students show follow the steps given to multiply the second equation by a factor, add in the first equation, and present their new equation.

Question 3: (-26, 22) Students should find this using their new created equation from question 2.

Question 4: Students should give a explanation that shows how multiplying the equation by a factor on both sides does not affect its function, and by adding in the first equation, it allows the equations to work in the same way as the original two equations.

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Grading Rubric

Traits	1- Poor	2- Partial	3- Acceptable	4- Excellent
Methods/	Does not	Used the	Used the correct	Used the correct
<u>Steps</u>	use any	correct	method and steps	method and
	methods or	method, but	to find the correct	steps in the best
	used the	the answer	answer	manner to solve
	wrong	was incorrect		the equations
	steps			
<u>Math</u>	Did not use	Used the	Used the correct	Applied all skills
<u>Skills</u>	any math	correct skills	skills to solve the	of the lesson to
	skills to	but did not	problem correctly	correctly answer
	solve the	answer		the problems
	problems	correctly		
Math Terms	Math terms	Math terms	Math terms and	All math symbols
and	and	and symbols	symbols were used	and terms were
<u>Symbols</u>	symbols	are used	appropriately to	used correctly
	are not	correctly in	solve the problems	and organized
	used or	most cases.		throughout the
	used			problem solving.
	incorrectly			
Organization	Work is not	Work is	Work is organized	Work is well
	organized	organized	and readable	organized and
		partially		easy to read
Frankanak	Evelopetice	Fundamentians	From la markin mala serve	- Cymlanatian
Explanation	Explanation	Explanation	Explanation shows	Explanation
	does not	shows some	understanding of	shows a
	make	understanding	the concepts	thorough
	sense			understanding of
				the concepts