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## The Elimination Method


(1) Review evaluating expressions and finding the least common multiple of two numbers.Determine which solution is true for a system of equations.Describe the elimination method for solving systems of linear equations.

Order the steps for solving a system of linear equations through elimination.

Apply the steps to solve a systems of equations with elimination method.

Solve the real-word problems using systems of linear equations.
with many hints, answer keys, and solution approaches for all tasks

The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of sofatutor.com

## Review evaluating expressions and finding the least common multiple of two numbers.

Fill in the blank with the correct expression to complete each problem.


The least common multiple of 3 and 7 is $\qquad$ 1.

Evaluating the expression $-3 x+4$ for $x=-8$ results in $\qquad$

The least common multiple of $3 x$ and $6 x$ is $\qquad$

Evaluating the expression $-4 x+5$ for $x=\left(\frac{1}{2}\right)$ results in $\qquad$

## Our hints for the tasks

## 1 Review evaluating expressions and finding the least common multiple of two numbers.

## 1. Hint

The least common multiple of two numbers is the smallest number that they both divide evenly into. For example, the least common multiple of 6 and 8 is 24 . To get this answer, start by listing some of the multiples of each number.

6: $6,12,18,24,30$
8: 8, 16, 24
As soon as you find a common multiple, you can stop making your list since we are looking for the least common multiple.

## 2. Hint

Use the distributive property to simplify expressions in the form $a(b+c)$. For example, if you have the expression $3(x+4)$, multiply each value inside the parentheses by 3 . This results in $3(x)+3(4)$. This expression simplifies to $3 x+12$.

## 3. Hint

In order to evaluate an expression, substitute (replace) the given value of the variable into the expression and simplify. For example, to evaluate the expression $x+5$ given that $x=2$, replace the $x$ with 2 to get 2 $+5=7$.

## Solutions and solution approaches for the tasks

Review evaluating expressions and finding the least common multiple of two numbers.

Answer key: 1:21// 2: 28 // 3: $6 x$ // 4: 3

- The least common multiple of 3 and 7 is 21 since $3(7)=21$ and $7(3)=21$
- Evaluating the expression $-3 x+4$ for $x=-8$ : Substitute $x$ for -8 in the expression:
$-3(-8)+4=24+4=28$
- The least common multiple of 3 and 6 is 6 since $3(2)=6$ and $6(1)=6$
- Evaluating the expression $-4 x+5$ for $x=\left(\frac{1}{2}\right):-4\left(\frac{1}{2}\right)+5=-2+5=3$

