Name _____ A#9

Goal: To solve systems in three variables.

I. Review: List the steps of each method for solving a system of linear equations.

Graphing	Substitution	Elimination
1. G	1. S	1. M
2. E	2. S	2. A
		3. S
3. C	3. S	
		4. S
	4. C	5. C

II. Solving a System Using Elimination: What is the solution of the system?



1) 3x + 2y + 4z = 112) 2x - y + 3z = 43) 5x - 3y + 5z = -1

Practice: What is the solution of the system?

$$\begin{cases} 2a+b+c=9\\a+2b+c=8\\a+b+2c=11 \end{cases}$$



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 $\begin{cases} 3x + 2y + 4z = 11 \\ 2x - y + 3z = 4 \\ 5x - 3y + 5z = -1 \end{cases}$

Practice: What is the solution of the system?

$$\begin{cases} 3x + 2y - z = 12 \\ -4x + y - 2z = 4 \\ x - 3y + z = -4 \end{cases}$$