

BONUS: Solve Systems of Linear Equations of 3 Variables

A system of 3 variables has 3 3-variable equations. The solution is an ordered triple (x,y,z), This bonus will replace your lowest quiz grade with a 100%. Due Monday, September 27.

I. Solve by using the Elimination method.

$$3x + y + z = 14$$

Ex 1. $-x + 2y - 3z = -9$

$$5x - y + 5z = 30$$

Step 1. Complete elimination with the 1st and 3rd equation for variable y (eliminate y).

Step 2. Complete elimination with the 1st and 2nd equation for variable y (eliminate y).

Step 3. Complete elimination with the results of step 1 and step 2 for x.

Step 4. Find x.

Step 5. Find y.

Final Answer: (_____, _____, _____)