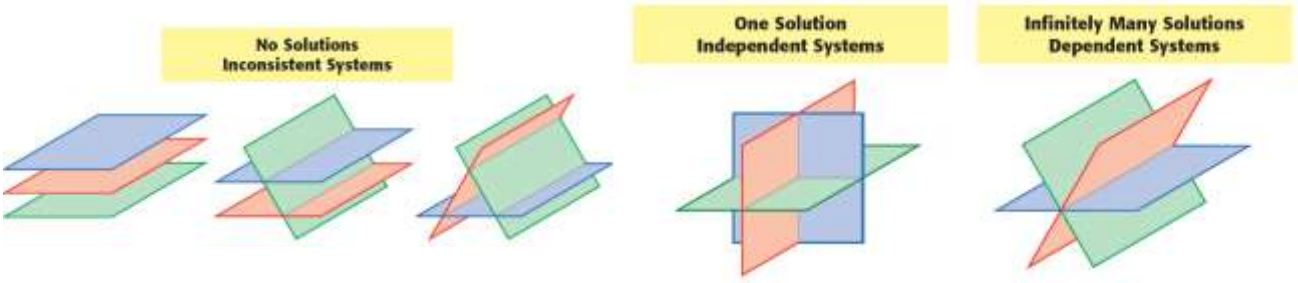
**Systems with 3 Review**

**Use elimination to solve the system of equations.**

1. $\begin{cases} 3x + 3y + z = -3 \\ 2x - 3y - 4z = -5 \\ 5x + 4y - z = 10 \end{cases}$

2.




**A student-written performance is playing at a local high school. Rachelle paid $52 for two adult, two student, and one child tickets; RJ paid $56 for one adult, two student, and three child tickets; and Hong-An paid $44 for one adult and four child tickets.**

3. Austin wants to know the cost of each type of ticket, *a, s,* and *c.* RJ says she can write a system of equations using the data. Which equation is not part of this system?

   A $2a + 2s + c = 52$

   B $a + 2s + 3c = 56$

   C $a + 4c = 44$

   D $2a + s + 2c = 54$

4. Austin solves the correct system of equations. What is the price for each type of ticket?

   A Adult: $13; student: $9; child: $7

   B Adult: $12; student: $10; child: $8

   C Adult: $11; student: $10; child: $10

   D Adult: $11; student: $9; child: $8