

Algebra 2
Review Ch.
Quiz 3.7-3.8 today

Test Ch. 3 Thurs.
At most: one linear programming problem

6. Solve (any method)

$$4x - 2y + 7z = 26$$

$$5x + 3y - 5z = -50$$

$$-7x - 8y - 3z = 49$$

Example 5

Solve the system of equations.

$$x + y + 2z = 6$$

$$2x + 5z = 12$$

$$x + 2y + 3z = 9$$

- 3.** Ms. Garza invested \$50,000 in three different accounts. She invested three times as much money in an account that paid 8% interest than an account that paid 10% interest. The third account earned 12% interest. If she earned a total of \$5160 in interest in a year, how much did she invest in each account?

20.  **SENSE-MAKING** A friend e-mails you the results of a recent high school swim meet. The e-mail states that 24 individuals placed, earning a combined total of 53 points. First place earned 3 points, second place earned 2 points, and third place earned 1 point. There were as many first-place finishers as second- and third-place finishers combined.
- a. Write a system of three equations that represents how many people finished in each place.
 - b. How many swimmers finished in first place, in second place, and in third place?
 - c. Suppose the e-mail had said that the athletes scored a combined total of 47 points
Explain why this statement is false and the solution is unreasonable.

