

Sec 2.4B Solving Systems of Linear Equations with 3 Variables**Show all your work/thinking.** Honors must also do pg 69 #29.**Solve each system by elimination. Describe your solutions.**

$$\begin{aligned} 1) \quad & 3x + y - z = -5 \\ & -4x + 2y + z = 17 \\ & -2x - 4y + z = -7 \end{aligned}$$

$$\begin{aligned} 2) \quad & x + 5y + 3z = -4 \\ & x + 2y - 3z = 8 \\ & -3x + 2y + 3z = -12 \end{aligned}$$

$$\begin{aligned} 3) \quad & -4x - 2y + 5z = 4 \\ & 5x + 2y - z = 15 \\ & 5x - 2y - 3z = -1 \end{aligned}$$

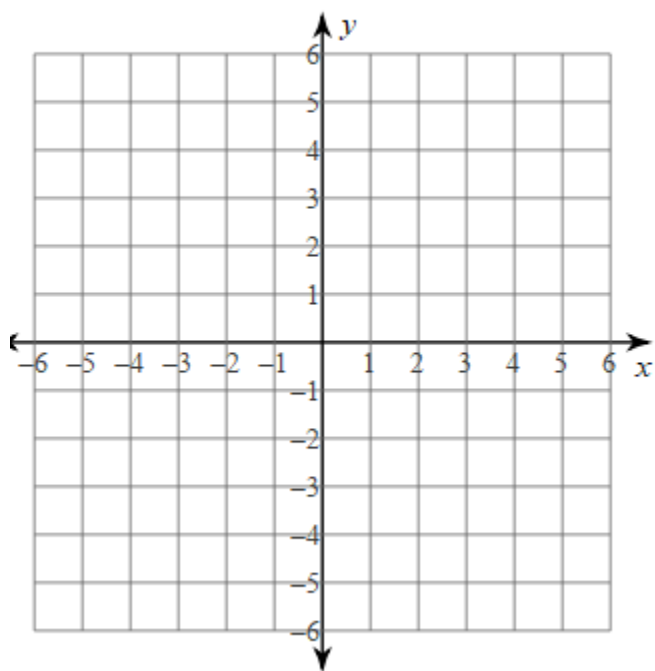
4. Read the problem below. Write and solve a system of equations to answer the question.

MODELING WITH MATHEMATICS Three orders are placed at a pizza shop. Two small pizzas, a liter of soda, and a salad cost \$14; one small pizza, a liter of soda, and three salads cost \$15; and three small pizzas, a liter of soda, and two salads cost \$22. How much does each item cost?



5. Graph the functions. Describe the transformations of their parent functions.

1. $y = 2|x + 3| - 1$



$$y = -(x + 2)^2 - 3$$

