

# ANSWER PRESENTATION TOOL

Algebra 2 - Student Edit

1

4 - Practice

5,13

ALL EVEN

Show Solu

ODD

**5. Step 1** Rewrite the system as a linear system in two variables.

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

$$\underline{5x + 7y + z = 4}$$

$$7x + 8y = 13$$

$$4x + 2y - 2z = 18$$

$$\underline{-x + 6y + 2z = -17}$$

$$3x + 8y = 1$$

**Step 2** Solve the new linear system for both of its variables.

$$7x + 8y = 13$$

$$\underline{-3x - 8y = -1}$$

$$4x = 12$$

$$x = 3$$

$$y = -1$$

**Step 3** Substitute  $x = 3$  and  $y = -1$  into an original equation and solve for  $z$ .

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

$$2(3) + (-1) - z = 9$$

$$6 - 1 - z = 9$$

$$z = -4$$

The solution is  $(3, -1, -4)$ .

13. The entire second equation should be multiplied by 4, not just the  $x$ -term.

$$4x - y + 2z = -18$$

$$\underline{-4x + 8y + 4z = 44}$$

$$7y + 6z = 26$$

