

Math 54 Worksheet 1
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1. Find the solution set to each system of equations.

$$\begin{array}{rclcl} & 2x & - & y & + & z & = & 5 \\ \text{(a)} & 6x & & & - & 2z & = & 1 \\ & & & 9y & - & z & = & 10 \end{array}$$

$$\begin{array}{rclcl} & & & y & + & 5z & = & 0 \\ \text{(b)} & -3x & + & 2y & - & 2z & = & 1 \\ & 3x & - & y & + & 7z & = & -1 \end{array}$$

$$\begin{array}{rclcl} & x & + & y & + & z & + & w & = & 1 \\ \text{(c)} & x & - & y & + & z & - & w & = & 0 \\ & x & + & y & - & z & - & w & = & 0 \\ & x & - & y & - & z & + & w & = & 0 \end{array}$$