## EXTRA PRACTICE - Exercises

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## Unit IV - First Degree Relations with Three or More Placeholders Part A - Solution Sets Lesson 3 - System of Three or More Open Sentences (Algebraic Solutions)

Find the solution set for each of the following systems of equations by combining them to temporarily eliminate placeholders.

1. $5 x-y+z=5$
$3 x+y-z=3$
$x+2 y-z=3$
2. $4 x-y+z=7$
$x-2 y-3 z=0$
$x+z=6$

$$
\text { 3. } \begin{aligned}
4 x+y-z & =-2 \\
x+3 y-4 z & =1 \\
2 x-y+3 z & =4
\end{aligned}
$$

4. $-x+y-3 z=2$
$2 x+y+z=0$
$5 x-3 y+5 z=6$

$$
\text { 5. } \begin{aligned}
5 a-5 b+2 c & =13 \\
2 a-4 b+3 c & =8 \\
3 a+2 b-4 c & =2
\end{aligned}
$$

6. ${ }^{-} 4 x-3 y=9$
$2 x+2 y+7 z=15$
$4 y+5 z=15$
7. $\frac{1}{4} x+\frac{1}{2} y+3 z=2$

$$
\begin{aligned}
& \frac{3}{4} x-\frac{3}{2} y-z=0 \\
& \frac{1}{2} x+y-2 z=4
\end{aligned}
$$

# Unit IV - First Degree Relations with Three or More Placeholders Part A - Solution Sets <br> Lesson 3 - System of Three or More Open Sentences (Algebraic Solutions) 

Find the solution set for each of the following systems of equations by combining them to temporarily eliminate placeholders.

1. $S=\{(1,2,2)\}$
2. $S=\{(-8,-25,14)\}$
3. $S=\{(-1,6,4)\}$
4. $S=\{(2,-2,-2)\}$
5. $\mathrm{S}=\{(4,3,4)\}$
6. $\mathrm{S}=\left\{\left(\frac{42}{17}, \frac{5}{17}, \frac{47}{17}\right)\right\}$
7. $S=\{(4,2,0)\}$
