

Solve the systems

$$1) \begin{cases} -6r + 5s + 2t = -11 \\ -2r + s + 4t = -9 \\ 4r - 5s + 5t = -4 \end{cases}$$

$$2) \begin{cases} -6x - 2y + 2z = -8 \\ 3x - 2y - 4z = 8 \\ 6x - 2y - 6z = -18 \end{cases}$$

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$$3) \begin{cases} 5x - 4y + 2z = 21 \\ -x - 5y + 6z = -24 \\ -x - 4y + 5z = -21 \end{cases}$$

$$4) \begin{cases} 6r - s + 3t = -9 \\ 5r + 5s - 5t = 20 \\ 3r - s + 4t = -5 \end{cases}$$

$$5) \begin{cases} -3a - b - 3c = -8 \\ -5a + 3b + 6c = -4 \\ -6a - 4b + c = -20 \end{cases}$$

$$6) \begin{cases} -5x + 3y + 6z = 4 \\ -3x + y + 5z = -5 \\ -4x + 2y + z = 13 \end{cases}$$

$$7) \begin{cases} 3a - 3b + 4c = -23 \\ a + 2b - 3c = 25 \\ 4a - b + c = 25 \end{cases}$$

$$8) \begin{cases} -6x - 2y - z = -17 \\ 5x + y - 6z = 19 \\ -4x - 6y - 6z = -20 \end{cases}$$

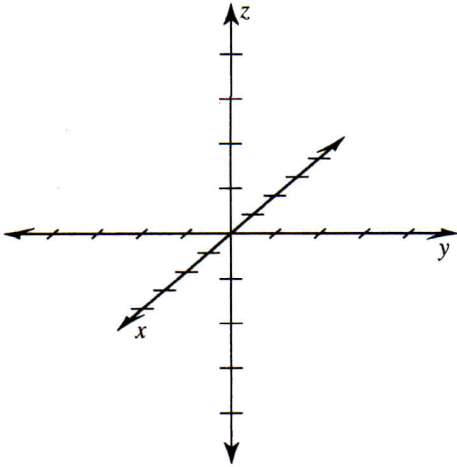
Critical thinking question:

9) Write a system of equations with the solution (2, 1, 0).

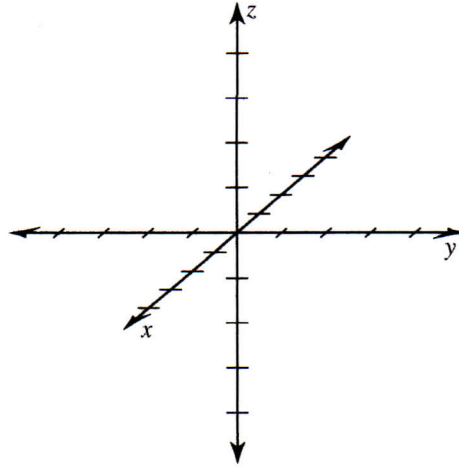
10.) Write a system of equations with the solution (4, -3, 5)

Plot each point.

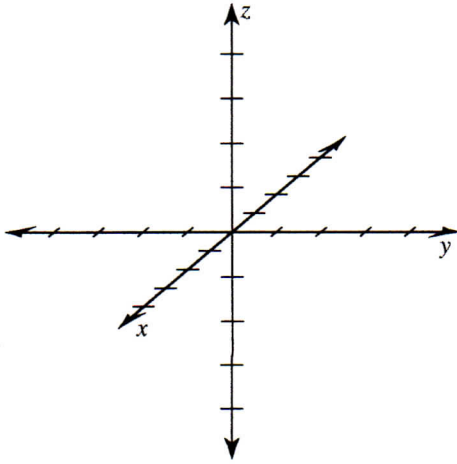
11) $(-1, -4, -1)$



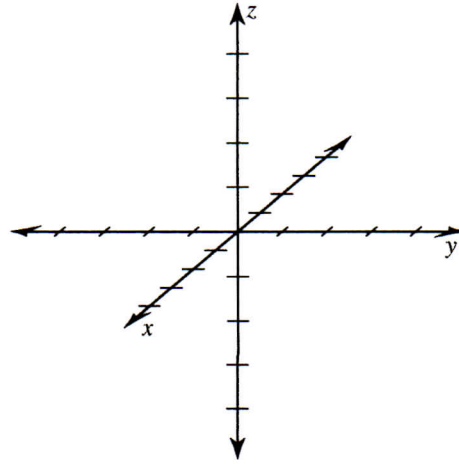
12) $(3, -1, -1)$



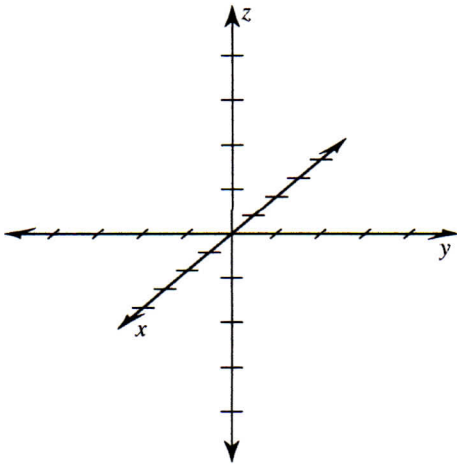
13) $(-1, -3, 1)$



14) $(-3, 2, -2)$



15) $(-4, 3, 0)$



16) $(-4, -4, 3)$

