

Assignment

Date _____ Period _____

Solve each system by elimination.

1)
$$\begin{aligned} -4x - 3y + 3z &= 8 \\ -x + y + 2z &= 0 \\ -2x + 4y - z &= 17 \end{aligned}$$

2)
$$\begin{aligned} -5x + y - 4z &= 21 \\ -5x - 2y + 3z &= -17 \\ -x - 2y + 4z &= -22 \end{aligned}$$

3)
$$\begin{aligned} 2x + 6y - 3z &= -15 \\ 3x + 4y - 6z &= -11 \\ 4x - y - 5z &= -5 \end{aligned}$$

4)
$$\begin{aligned} -2x - 5y + 4z &= 14 \\ 5x - 5y + 2z &= 22 \\ 3x + 6y - 3z &= -24 \end{aligned}$$

5)
$$\begin{aligned} 6x - y - 3z &= 22 \\ 6x - 6y + 5z &= 10 \\ -6x + y + 5z &= -30 \end{aligned}$$

6)
$$\begin{aligned} -2x - 4y + 4z &= 0 \\ -4x - y - z &= 24 \\ 2x + 2y + 3z &= -29 \end{aligned}$$

7)
$$\begin{aligned} -x + 2y + 2z &= -1 \\ x + 2y + 6z &= -3 \\ -3x - y + 5z &= 4 \end{aligned}$$

8)
$$\begin{aligned} -5x - 5y - 2z &= -16 \\ -x - 2y + 4z &= 9 \\ 5x + 4y - 6z &= -9 \end{aligned}$$

9)
$$\begin{aligned} -2y - 4z &= 12 \\ -3x - 3y + 5z &= -25 \\ 3x - y - z &= -11 \end{aligned}$$

10)
$$\begin{aligned} -2x - 5y + 4z &= 19 \\ -3x - 5y + 3z &= 20 \\ -3x - 5y + 2z &= 18 \end{aligned}$$

11)
$$\begin{aligned} -4y + z &= 9 \\ 6x + 4y - z &= 9 \\ -3x + 4y + 4z &= 7 \end{aligned}$$

12)
$$\begin{aligned} -x + 5y + 2z &= 1 \\ 5x - 6y + 4z &= 5 \\ -3x - 2y + z &= -21 \end{aligned}$$

13)
$$\begin{aligned} -2x + 2y - 2z &= -6 \\ 3x + 5y + 5z &= -5 \\ -x - y - 3z &= -1 \end{aligned}$$

14)
$$\begin{aligned} -x + y - z &= 1 \\ x + y + z &= 3 \\ 5x - y + z &= 3 \end{aligned}$$

15)
$$\begin{aligned} -3x - 3y - 5z &= 10 \\ 5x - 6y - 6z &= -20 \\ 5x - 5y + 6z &= -9 \end{aligned}$$

16)
$$\begin{aligned} -2x - 6y - 2z &= 8 \\ 3x + 2y + 2z &= -4 \\ 3x + 5y + 2z &= -10 \end{aligned}$$

17)
$$\begin{aligned} -5x - 3y + 3z &= -11 \\ 3x - 6y - 3z &= 30 \\ -3x + y + 3z &= -15 \end{aligned}$$

18)
$$\begin{aligned} 2x - 5y - 6z &= -12 \\ 4x + 3y + z &= 15 \\ 4x - y - 4z &= 2 \end{aligned}$$

$$\begin{aligned} 19) \quad & -5x + 2y + 5z = -25 \\ & -4x - 3y + 3z = -14 \\ & 4x + 4y - 2z = 8 \end{aligned}$$

$$\begin{aligned} 21) \quad & -2x + 6y - 3z = -15 \\ & 2x - 6y + z = 25 \\ & -3x + 6y - z = -25 \end{aligned}$$

$$\begin{aligned} 23) \quad & x - 5y + 2z = 4 \\ & 4x + 4y + 2z = -2 \\ & -5x + y - 5z = -5 \end{aligned}$$

$$\begin{aligned} 25) \quad & 3x - 4y + 5z = 9 \\ & x + 3y - 5z = 5 \\ & 3x - 3y + 5z = 11 \end{aligned}$$

$$\begin{aligned} 27) \quad & 2x + 2y + 3z = 2 \\ & -x + 4y - 5z = -21 \\ & -5x - 3y + 3z = -13 \end{aligned}$$

$$\begin{aligned} 29) \quad & -5x - 4y - 6z = -7 \\ & -3x - 5y + 5z = -5 \\ & 2x - 4y - 2z = 24 \end{aligned}$$

$$\begin{aligned} 31) \quad & 2x + 5y + z = 7 \\ & -x + 5y + 4z = -14 \\ & 5x + 3y + 2z = 10 \end{aligned}$$

$$\begin{aligned} 33) \quad & 5x - 3y + 3z = 23 \\ & -x + 2y + 3z = 7 \\ & 2x + y - 3z = -12 \end{aligned}$$

$$\begin{aligned} 35) \quad & 3x + 5y + 5z = -20 \\ & -4x + y + 2z = -30 \\ & x - 4y + 4z = 9 \end{aligned}$$

$$\begin{aligned} 37) \quad & 6x - 4y + 2z = 12 \\ & -3x - 5y + 3z = -18 \\ & 5x - 4y - 3z = 24 \end{aligned}$$

$$\begin{aligned} 20) \quad & -2x - y + 3z = 17 \\ & 5x + 3y + 3z = -10 \\ & 5x + 4y + z = -14 \end{aligned}$$

$$\begin{aligned} 22) \quad & x + 4y - 5z = 13 \\ & -4x + 2y + 2z = -16 \\ & 3x - y - 4z = 21 \end{aligned}$$

$$\begin{aligned} 24) \quad & 6x + y - z = 5 \\ & 4x - y - 3z = -5 \\ & x + 2y - 2z = -12 \end{aligned}$$

$$\begin{aligned} 26) \quad & -4x - 5y + 4z = -25 \\ & -4x - 2y - 2z = -4 \\ & 6x + 2y + 3z = 5 \end{aligned}$$

$$\begin{aligned} 28) \quad & 6x - 3y - 2z = 21 \\ & -3y - 2z = 3 \\ & 5x - 2y + z = 24 \end{aligned}$$

$$\begin{aligned} 30) \quad & -5y - 5z = 0 \\ & -6x - y + 5z = 30 \\ & -3x + 2y - 5z = 25 \end{aligned}$$

$$\begin{aligned} 32) \quad & -6x + y - 2z = -16 \\ & -2x - 3y - 3z = 17 \\ & -5x - 3y - 3z = 11 \end{aligned}$$

$$\begin{aligned} 34) \quad & -6x + y - 4z = -6 \\ & 2x - 6y - z = 18 \\ & -3x - 3y + 4z = -8 \end{aligned}$$

$$\begin{aligned} 36) \quad & -x - 3y - z = 16 \\ & -x + 2y - 5z = 21 \\ & -3x - 6y - z = 29 \end{aligned}$$

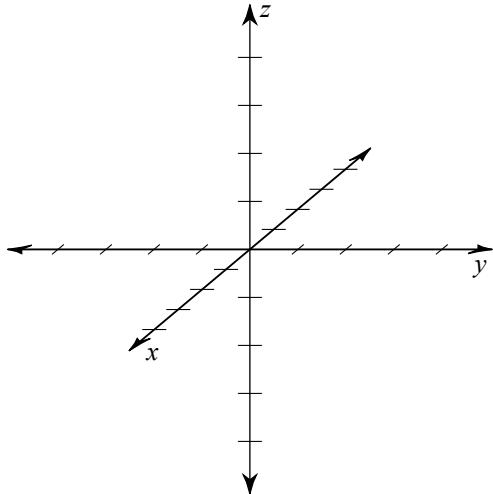
$$\begin{aligned} 38) \quad & -6x - 5y - 2z = 18 \\ & 6x + 2y + 4z = 2 \\ & 6x - y + 5z = 18 \end{aligned}$$

39) $-5x - 6y - z = -3$
 $-x + 4y + 3z = 5$
 $3x - y + 3z = 23$

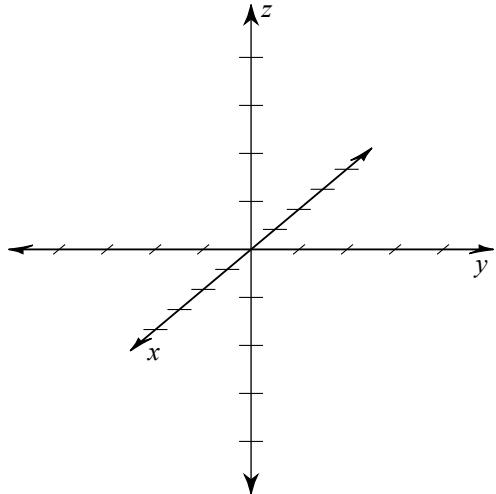
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Plot each point.

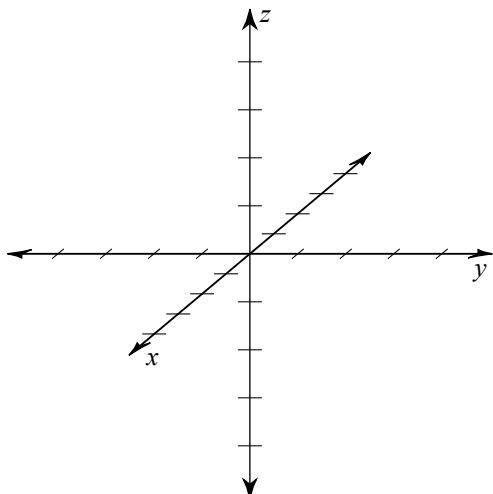
41) $(-4, -4, -1)$



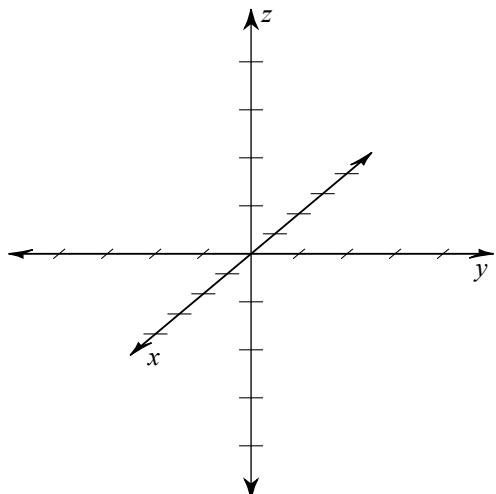
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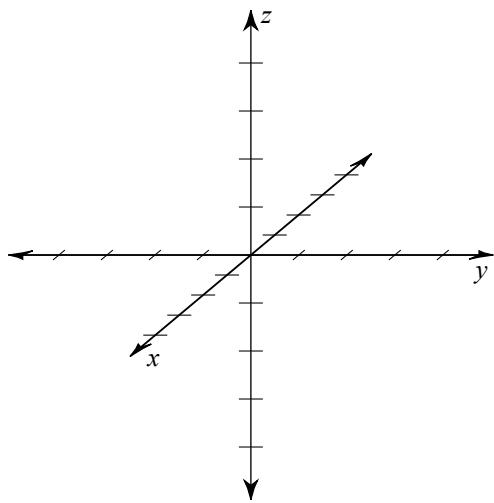
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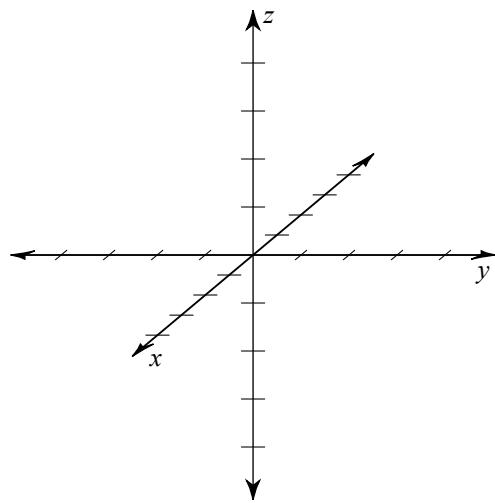
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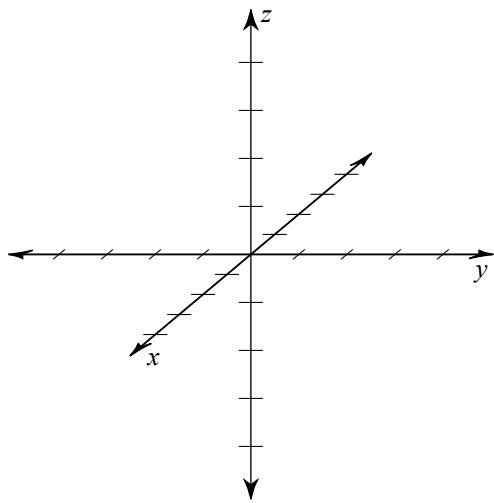
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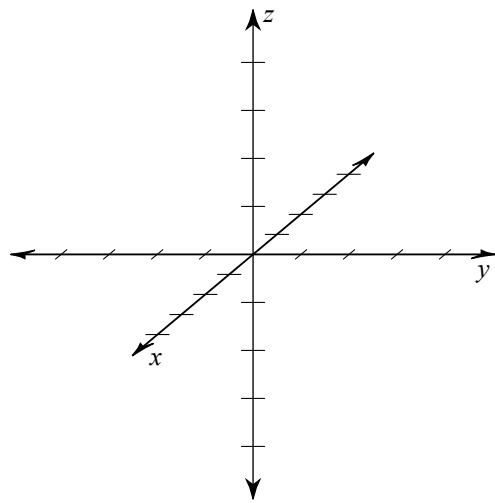
46) $(0, -3, -4)$



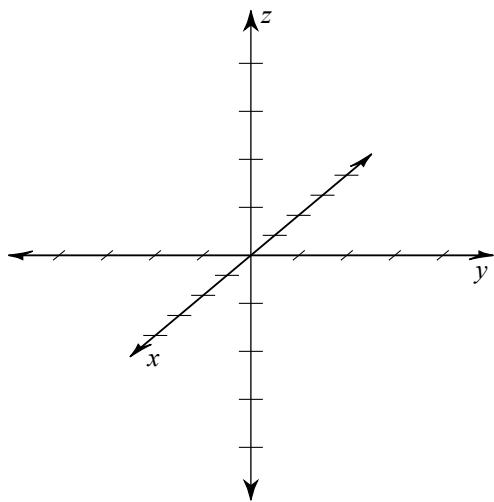
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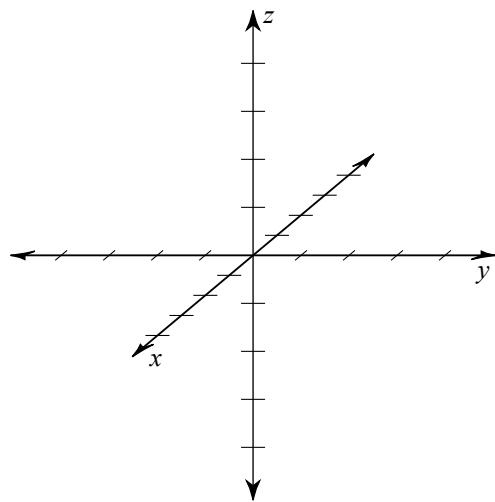
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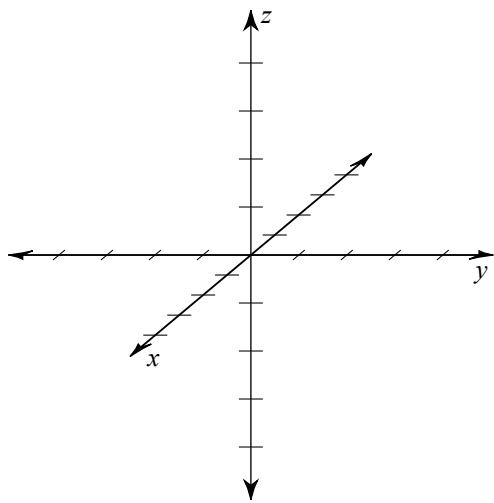
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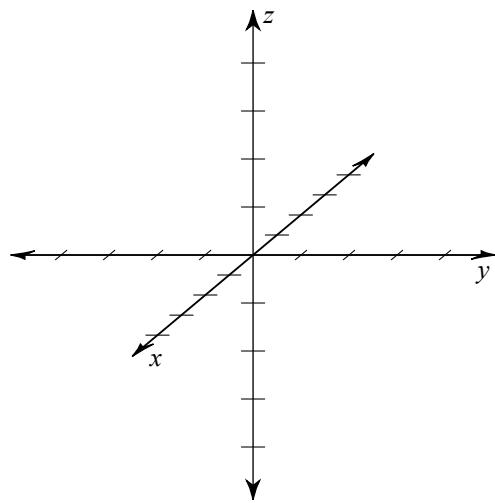
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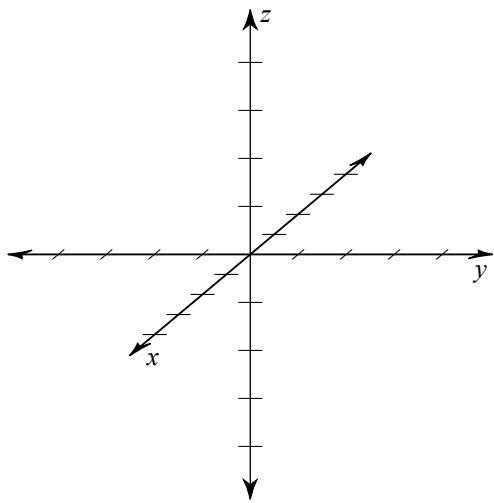
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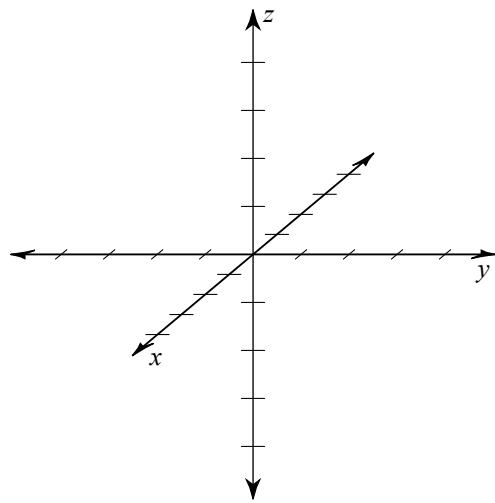
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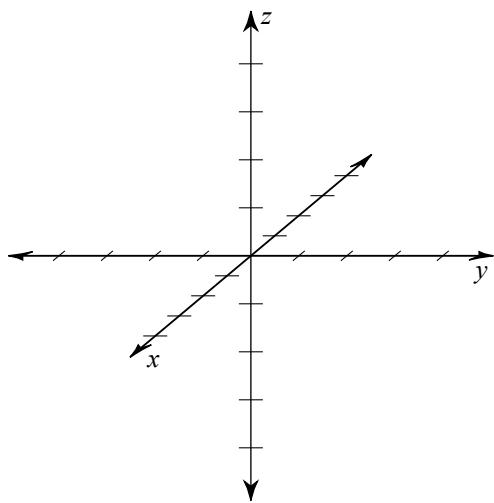
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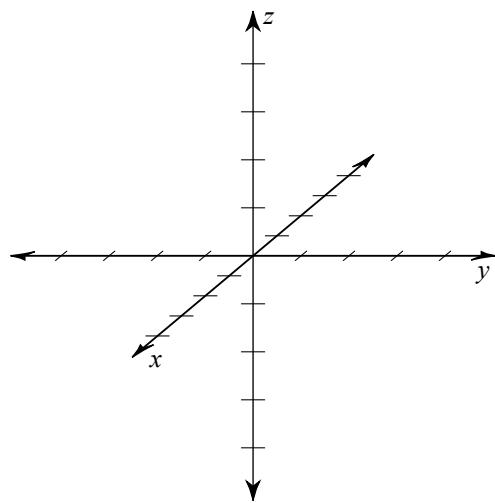
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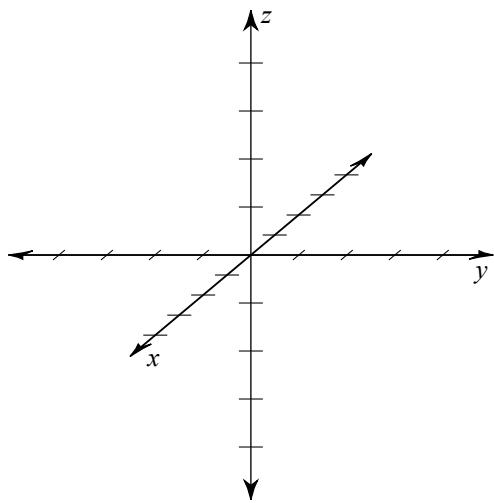
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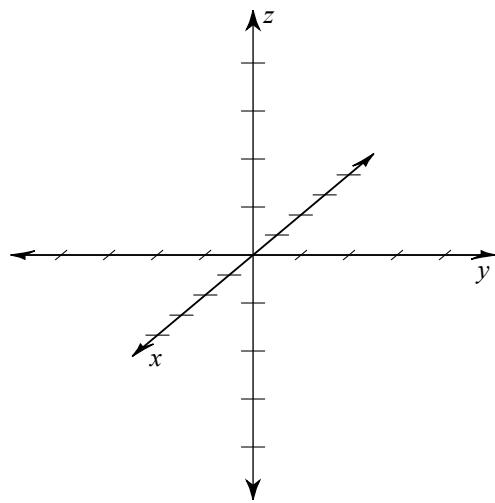
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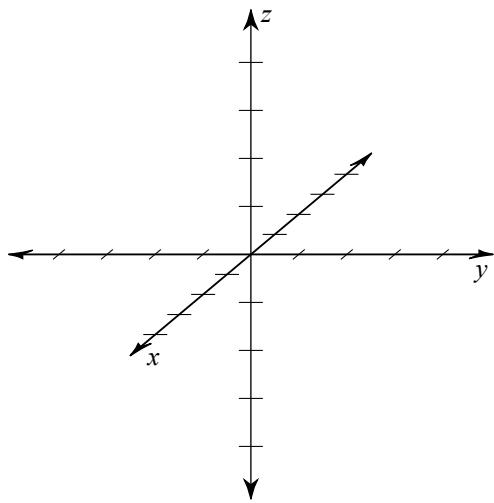
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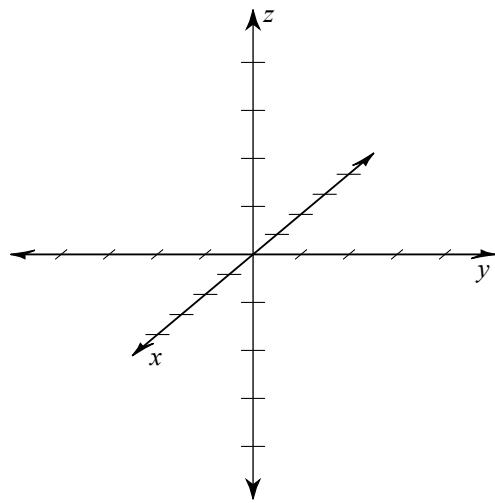
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$-x + y + 2z = 0$

$-2x + 4y - z = 17$

(−5, 1, −3)

3) $2x + 6y - 3z = -15$

$3x + 4y - 6z = -11$

$4x - y - 5z = -5$

(−3, −2, −1)

5) $6x - y - 3z = 22$

$6x - 6y + 5z = 10$

$-6x + y + 5z = -30$

(1, −4, −4)

7) $-x + 2y + 2z = -1$

$x + 2y + 6z = -3$

$-3x - y + 5z = 4$

(−1, −1, 0)

9) $-2y - 4z = 12$

$-3x - 3y + 5z = -25$

$3x - y - z = -11$

(−4, 4, −5)

11) $-4y + z = 9$

$6x + 4y - z = 9$

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(3, −1, 5)

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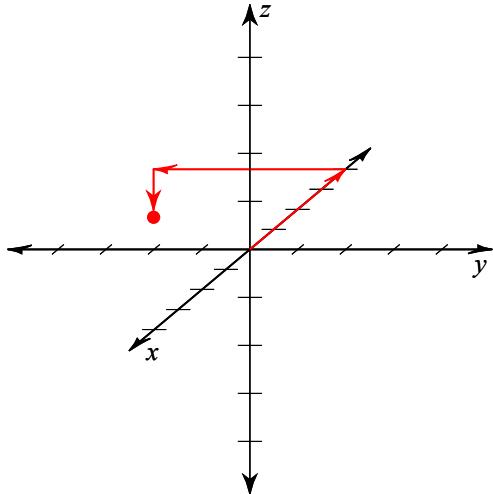
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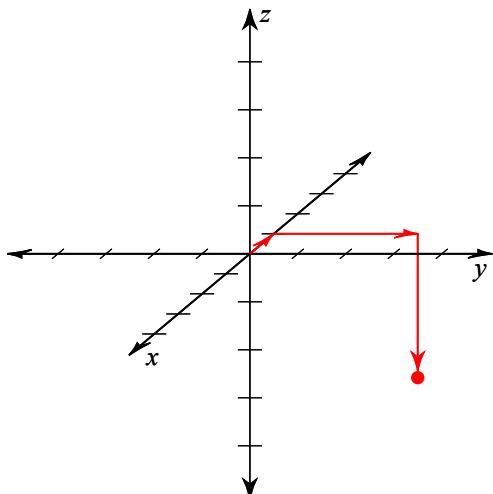
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 $(2, -2, 5)$

Plot each point.

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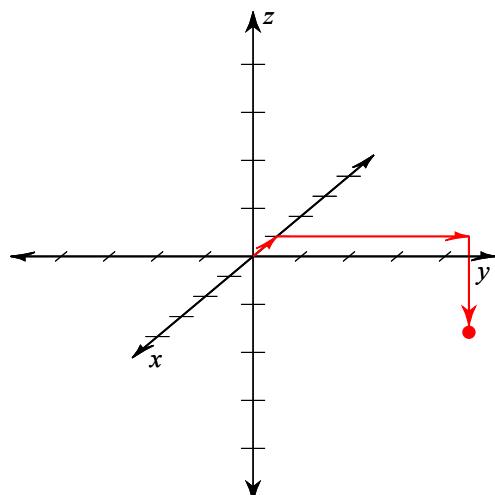


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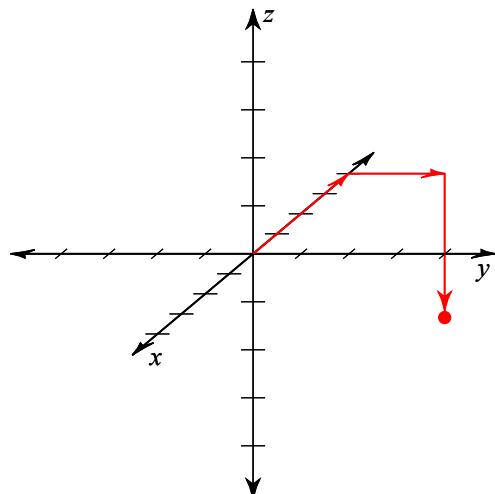


40) $-4x + y - z = 15$
 $6x + 4y + 6z = -8$
 $-3y - 5z = -13$
 $(-4, 1, 2)$

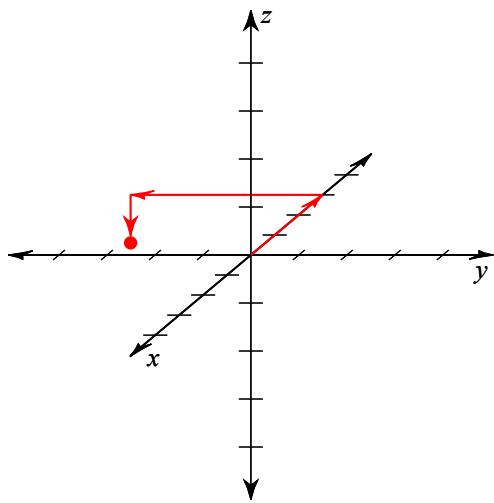
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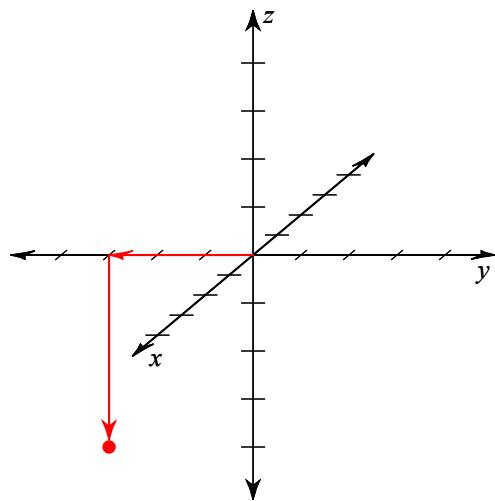
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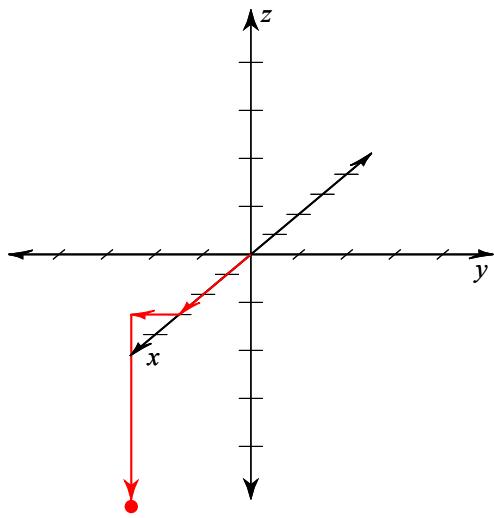
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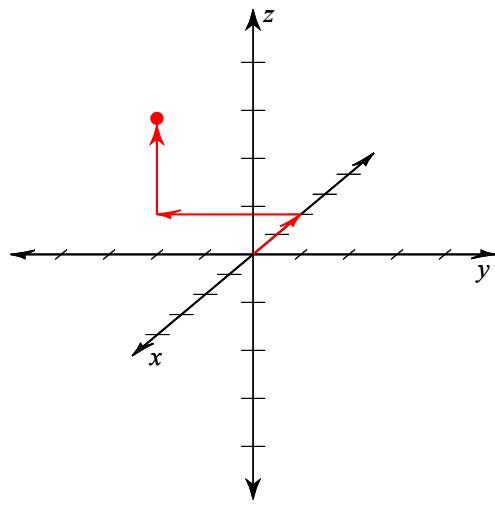
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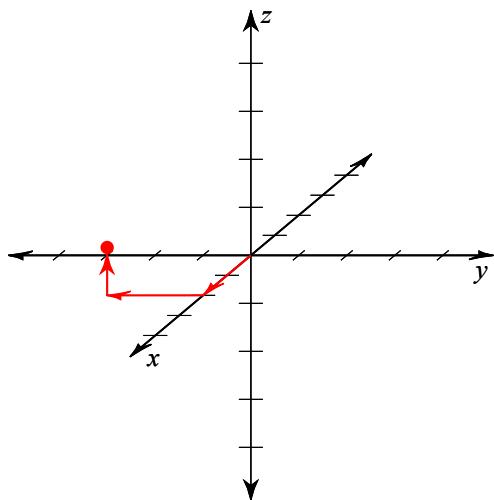
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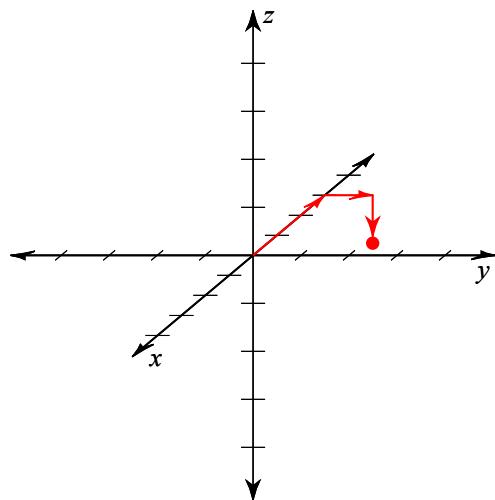
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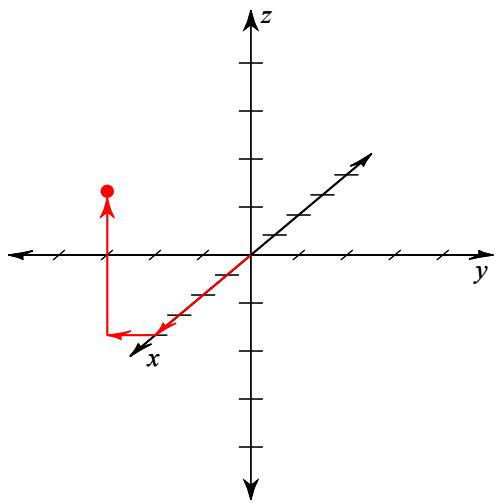
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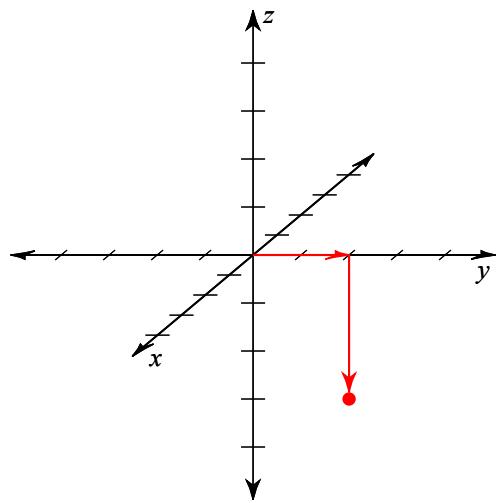
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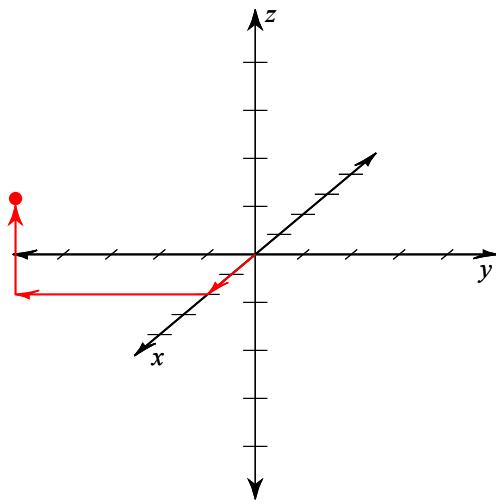
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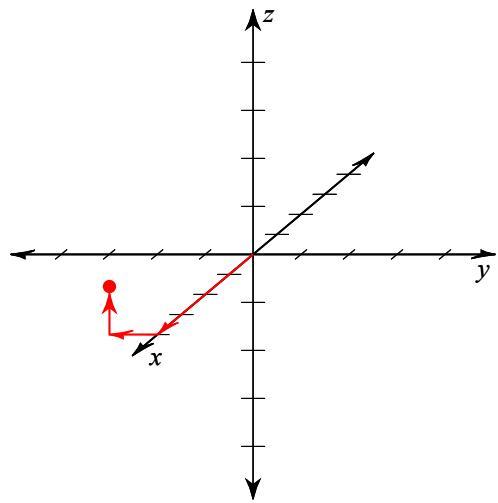
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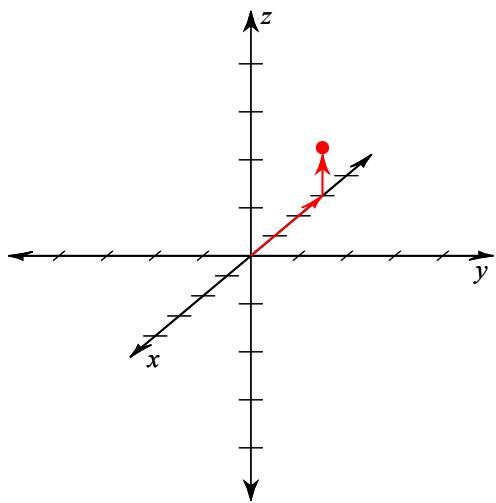
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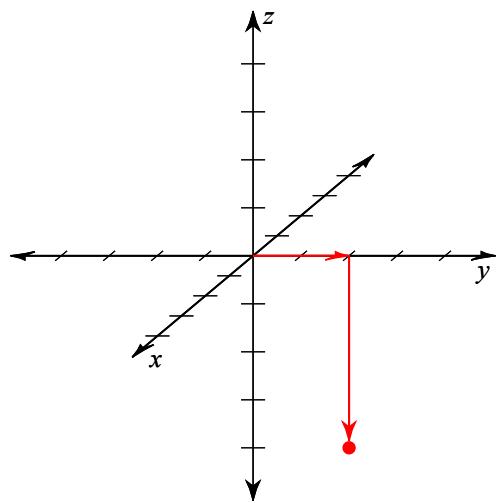
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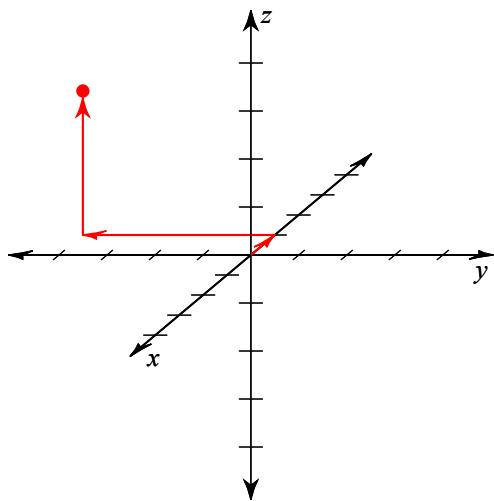
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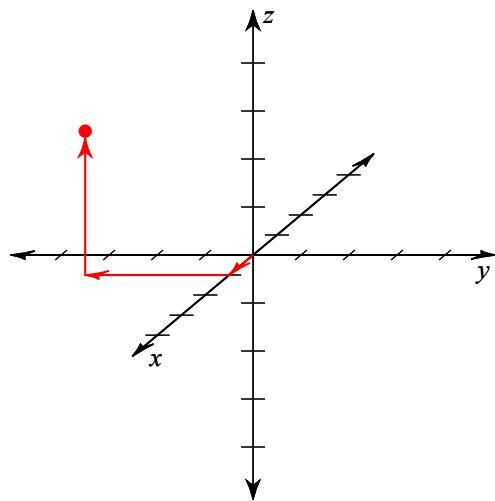
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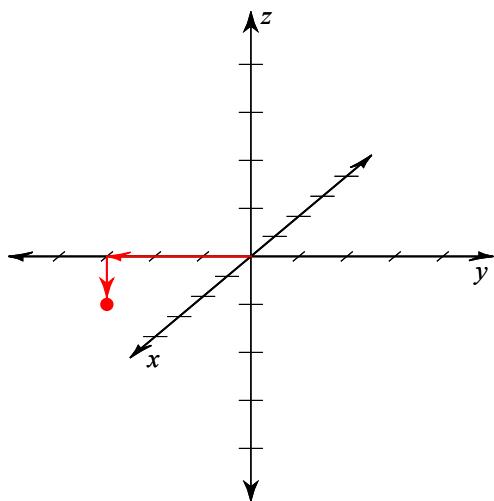
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