

x	x
y	y
z	z

Lesson 7 Homework

$$\begin{aligned} 1) \quad & 2x - 3y + z = -32 \\ & 5x + 7y - z = 3 \\ & -6x + 6y - 4z = 84 \end{aligned}$$

$$x = -7, y = 5, z = -3$$

$$\begin{aligned} 2) \quad & 2x + 4y - 3z = 25 \\ & -3x + 5y + 2z = -81 \\ & 5x + 9y - 5z = 46 \end{aligned}$$

$$x = 11, y = -6, z = -9$$

$$\begin{aligned} 1) \quad & 2x - 3y + z = -32 \\ & 5x + 7y - z = 3 \\ & 7x + 4y = -29 \end{aligned}$$

$$\begin{aligned} & 5x + 7y - z = 3 \\ & -6x + 6y - 4z = 84 \\ & -20x - 28y + 4z = -12 \\ & -6x + 6y - 4z = 84 \\ & -26x - 22y = 72 \end{aligned}$$

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$$\begin{aligned} & 7x + 4y = -29 \\ & -26x - 22y = 72 \\ & 77x + 44y = -319 \\ & -32x - 44y = 144 \\ & 25x = -175 \\ & x = -7 \end{aligned}$$

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$$\begin{aligned} & 7(-7) + 4y = -29 \\ & -49 + 4y = -29 \\ & 4y = 20 \\ & y = 5 \end{aligned}$$

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$$\begin{aligned} 2) \quad & 2x + 4y - 3z = 25 \\ & -3x + 5y + 2z = -81 \\ & 4x + 8y - 6z = 50 \\ & -9x + 15y + 6z = -243 \\ & -5x + 23y = -193 \end{aligned}$$

$$\begin{aligned} & -3x + 5y + 2z = -81 \\ & 5x + 9y - 5z = 46 \\ & -15x + 25y + 10z = -405 \\ & 10x + 18y - 10z = 92 \\ & -5x + 43y = -313 \end{aligned}$$

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$$\begin{aligned} & -5x + 23y = -193 \\ & -5x + 43y = -313 \\ & -20y = 120 \\ & y = -6 \end{aligned}$$

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$$\begin{aligned} & -5x + 23(-6) = -193 \\ & -5x - 138 = -193 \\ & -5x = -55 \\ & x = 11 \end{aligned}$$

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$$\begin{aligned} 1) \quad & 2(-7) - 3(5) + z = -32 \\ & -14 - 15 + z = -32 \\ & z = -3 \end{aligned}$$

$$\begin{aligned} 2) \quad & 2(11) + 4(-6) - 3z = 25 \\ & 22 - 24 - 3z = 25 \\ & -3z = 27 \\ & z = -9 \end{aligned}$$