Problem 1. **(1 point)** CUNY/CityTech/CollegeAlgebra_Trig/3x3-Systems/triangular.pg

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

Find the unique solution to this system of equations. Give your answer as a point. (x,y,z)

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Hint: *(Instructor hint preview: show the student hint after the following number of attempts: 2)*
Perhaps start by looking at the third equation?

What can you determine from $-3z=0$?

Can you use that in the other equations?

Correct Answers:

- $(-1,1,0)$

Problem 2. **(1 point)** CUNY/CityTech/CollegeAlgebra_Trig/3x3-Systems/monics.pg

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

Find the unique solution to this system of equations. Give your answer as a point.

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Correct Answers:

- $(3,2,5)$

Problem 3. **(1 point)** CUNY/CityTech/CollegeAlgebra_Trig/3x3-Systems/no-restrictions.pg

$$\begin{aligned} 5x+2y-5z &= 13 \\ 3x+2y+4z &= 0 \\ x+5y+3z &= -6 \end{aligned}$$

Find the unique solution to this system of equations. Give your answer as a point.

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Correct Answers:

- $(2,-1,-1)$

Problem 4. **(1 point)** CUNY/CityTech/CollegeAlgebra_Trig/3x3-Systems/non-integer.pg

$$\begin{aligned} -x-16y-5z &= -9 \\ -5x+20y+5z &= -20 \\ x-16y-3z &= 1 \end{aligned}$$

Find the unique solution to this system of equations. Give your answer as a point.

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- Do not use decimal approximations in your answer.
- Use fractions instead.

Correct Answers:

- $\left(5, \frac{1}{4}, 0\right)$