Matthew Mendoza Assignment HW-01 due 01/31/2024 at 11:59pm PST

1. (1 point) Solve the following system:

$$\begin{aligned}
-4x + 8y &= 0 \\
12x + 3y &= -54
\end{aligned}$$

The solution is:

x = _____ *y* = ____

2. (1 point) Solve the following system:

$$5x - 8y = -23$$
$$-4x - 6y = 6$$

The solution is:

Generated by ©WeBWorK, http://webwork.maa.org, Mathematical Association of America

3. (1 point) Solve the following system:

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

Note: your answers must be fractions (decimals are not allowed).

$$\begin{aligned}
 x &= \underline{} \\
 y &= \underline{} \\
 z &= \underline{} \end{aligned}$$

1

4. (1 point) For what value(s) of *h* is the linear system consistent?

$$\begin{array}{rcl}
-6x_1 & - & 8x_2 & = & h \\
9x_1 & + & 12x_2 & = & -1
\end{array}$$

h [select/=/not equal to] _____