WebAssign
CH 1.1 (Homework)

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MA 265 Spring 2013, section 132, Spring 2013
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Current Score : 20 / 20 **Due :** Thursday, January 17 2013 11:40 PM EST

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1. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.001.

Solve the given linear system by the method of elimination. (If there is no solution, enter NO SOLUTION.)

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

$(x, y) =$ ( )

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2. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.002.

Solve the given linear system by the method of elimination. (If there is no solution, enter NO SOLUTION.)

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

$(x, y, z) =$ ( )

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3. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.004.

Solve the given linear system by the method of elimination. (If there is no solution, enter NO SOLUTION.)

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

$(x, y) =$ ( )

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4. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.006.

Solve the given linear system by the method of elimination. (Use the parameters x, y, and z as necessary. If there is no solution, enter NO SOLUTION.)

$$\begin{aligned} x + y - 2z &= 14 \\ 2x + 3y + 4z &= 2 \end{aligned}$$

$(x, y, z) =$ ( )

5. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.010.

Solve the given linear system by the method of elimination. (If there is no solution, enter NO SOLUTION.)

$$\begin{aligned} x + y &= -2 \\ 2x - y &= 14 \\ 3x + 4y &= -12 \end{aligned}$$

$(x, y) =$ ( )

6. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.014.

Solve the given linear system by the method of elimination. (If there is no solution, enter NO SOLUTION.)

$$\begin{aligned} 2x + 3y - z &= 1 \\ 2x - y + 2z &= -17 \\ 3x - y + z &= -20 \end{aligned}$$

$(x, y, z) =$ ( )

7. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.016.

Consider the linear system.

$$\begin{aligned} 4x + 4y &= s \\ 16x + 16y &= t \end{aligned}$$

(a) Determine particular values for s and t so that the system is consistent.

$(s, t) =$ ( )

(b) Determine particular values for s and t so that the system is inconsistent.

$(s, t) =$ ( )

(c) What relationship between the values of s and t will guarantee that the system is consistent?

8. 2.5/2.5 points | Previous Answers KolmanLinAlg9 1.1.022.

Is there a value of r so that $x = 2$, $y = 5$, $z = r$ is a solution to the following linear system? If there is, find it. (If there is no solution, enter NO SOLUTION.)

$$\begin{aligned} 2x + 3y - z &= 22 \\ x - y + 2z &= -9 \\ 4x + y - 2z &= 19 \end{aligned}$$

$r =$ -3