

Question

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Section 11.2 - Systems of Linear Equations

Instructions

Please work all homework questions and clearly label / place your answers in the boxes (or parenthesis) provided. If you have questions, please feel free to email me at Joshua.Patterson@tamuc.edu

1. Question Details

JModd7 11.2.001.CMI. [1646179]

Determine whether the given ordered pair solves the given system of equations.

 $(6, 1)$

$$5x - 7y = 23$$

$$2x + 2y = 14$$

- Yes
- No

2. Question Details

JModd7 11.2.004. [1646118]

Determine whether the given ordered pair solves the given system of equations.

 $(-3, -4)$

$$3x + 3y = -20$$

$$4x - 5y = 5$$

- Yes
- No

3. Question Details

JModd7 11.2.005. [1646156]

Determine whether the given ordered triple solves the given system of equations.

 $(6, -3, 2)$

$$2x + 3y - z = 1$$

$$x + y - z = 5$$

$$10x - 2y = 33$$

- Yes
- No

4. Question Details

JModd7 11.2.006.CMI. [1646099]

Determine whether the given ordered triple solves the given system of equations.

 $(0, 7, -3)$

$$3x - 2y + z = -17$$

$$2x + 4y + z = 25$$

$$x - z = 3$$

- Yes
- No

5. Question Details

JMod7 11.2.011.CMI. [1647347]

Do the following.

$$x + y = 6$$

$$5x + y = 7$$

$$2x + 2y = 12$$

(a) Find each line's slope and y-intercept.

$$x + y = 6:$$

slope

y-intercept

$$5x + y = 7:$$

slope

y-intercept

$$2x + 2y = 12:$$

slope

y-intercept

(b) Use the slopes and y-intercepts to determine whether the given system has no solution, one solution, or an infinite number of solutions. Do not actually solve the system.

- no solution
- one solution
- infinite number of solutions

6. Question Details

JMod7 11.2.012. [1647498]

Do the following.

$$5x - y = 16$$

$$-15x + 3y = 5$$

$$-10x + 2y = 21$$

(a) Find each line's slope and y-intercept.

$$5x - y = 16:$$

slope

y-intercept

$$-15x + 3y = 5:$$

slope

y-intercept

$$-10x + 2y = 21:$$

slope

y-intercept

(b) Use the slopes and y-intercepts to determine whether the given system has no solution, one solution, or an infinite number of solutions. Do not actually solve the system.

- no solution
- one solution
- infinite number of solutions

7. Question Details

JModd7 11.2.016. [1646158]

Determine whether the given system could have a single solution. Do not actually solve the system.

$$\begin{aligned}x + y + z &= 32 \\9x - y + 2z &= 13 \\2x + 2y + 2z &= 64\end{aligned}$$

- Yes
- No

8. Question Details

JModd7 11.2.017. [1646124]

Determine whether the given system could have a single solution. Do not actually solve the system.

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

- Yes
- No

9. Question Details

JModd7 11.2.019.CMI. [1646143]

Solve the system with the elimination method. Check your answers by substituting them back in.

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

$$(x, y) = \left(\boxed{}, \boxed{} \right)$$

10. Question Details

JModd7 11.2.022.CMI. [1646111]

Solve the system with the elimination method. Check your answers by substituting them back in.

$$\begin{aligned}7x - 2y &= -61 \\x + 2y &= 5\end{aligned}$$

$$(x, y) = \left(\boxed{}, \boxed{} \right)$$

Assignment Details