

11.1: Graded Homework

Nicole Cook

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● Question 1

✓ 0/1 pt ↻ 3 🔁 99

Solve the system by substitution.

$$\begin{cases} -6x + 7y = 29 \\ x = -7y + 36 \end{cases}$$



☐ No solution

☐ Infinite number of solutions

Question Help: Video Message instructor

● Question 2

✓ 0/1 pt ↻ 3 🔁 99

Use the substitution method to solve the system

$$\begin{cases} -x + y = 0 \\ 4x - 3y = -1 \end{cases}$$



☐ No solution

☐ Infinite number of solutions

Question Help: Video Message instructor

● Question 3

✓ 0/1 pt ↻ 3 🔁 99

Solve the system by substitution.

$$\begin{cases} -3x - 5y = -21 \\ x = 5y - 13 \end{cases}$$



☐ No solution

☐ Infinite number of solutions

Question Help: Message instructor

Question 4

0/1 pt 3 99

Solve by substitution.

$$\begin{cases} -2x + y = -7 \\ 4y = -32 + 8x \end{cases}$$

☐ No solution☐ Infinite number of solutions

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Question 5

0/1 pt 3 99

Solve the following system of equations with the substitution method:

$$\begin{cases} x = -5y + 4 \\ -5x - 25y = -20 \end{cases}$$

Answer: (,)

Enter your answers as integers or as reduced fractions in the form A/B. If there is no solution, type "DNE" in each blank. If there are an infinite number of solutions, specify their form in the blanks in terms of y.

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Question 6

0/1 pt 3 99

Solve the System by Elimination/Addition

$$\begin{cases} -4x + 2y = -32 \\ -3x - 10y = 45 \end{cases}$$

☐ No solution☐ Infinite number of solutions

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Question 7

0/1 pt 3 99

Solve this system of equations. Give your solution as an ordered pair, using integers or reduced fractions for the coordinates.

$$\begin{cases} 4x + 2y = -10 \\ 3x - y = -15 \end{cases}$$

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● Question 8

✓ 0/1 pt ↻ 3 ⇄ 99

Solve the system by elimination.

$$\begin{cases} 3x - 4y = -5 \\ -5x - 3y = 18 \end{cases}$$



☐ No solution

☐ Infinite number of solutions

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● Question 9

✓ 0/1 pt ↻ 3 ⇄ 99

Solve the system.

$$2x - 4y = 10$$

$$3x - 6y = 18$$

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● Question 10

✓ 0/1 pt ↻ 3 ⇄ 99

Solve the system with the addition method:

$$\begin{cases} -5x + 6y = -4 \\ -25x + 30y = -20 \end{cases}$$

Answer: (,)

Enter your answers as integers or as reduced fraction(s) in the form A/B. If there is no solution, type "DNE" in each blank. If there are an infinite number of solutions, specify their form in the blanks in terms of x (eg. (x, 2x-3)).

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● Question 11✔ 0/1 pt ↺ 3 ⇌ 99

Solve the following system of equations with the substitution method:

$$\begin{cases} y = 3x - 7 \\ y = 3x - 5 \end{cases}$$



☐ No solution

☐ Infinite number of solutions

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● Question 12✔ 0/1 pt ↺ 3 ⇌ 99

Solve the given linear system of equations:

$$\begin{cases} 9x - 6y = 15 \\ -6x + 4y = -10 \end{cases}$$

Enter your answer in the form of an ordered pair (x, y) .



☐ No solution

☐ Infinite number of solutions

Question Help: Video Message instructor

● Question 13✔ 0/1 pt ↺ 3 ⇌ 99

Solve by Substitution

$$\begin{cases} -4x + y = 8 \\ 3y = 25 + 12x \end{cases}$$



☐ No solution

☐ Infinite number of solutions

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● Question 14✔ 0/1 pt ↺ 3 ⇌ 99

You need a 70% alcohol solution. On hand, you have a 300 mL of a 40% alcohol mixture. You also have 90% alcohol mixture. How much of the 90% mixture will you need to add to obtain the desired solution?

You will need

_____ mL of the 90% solution

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● Question 15

 0/1 pt  3  99

The admission fee at an amusement park is \$1.25 for children and \$6.40 for adults. On a certain day, 272 people entered the park, and the admission fees collected totaled \$1164. How many children and how many adults were admitted?

number of children equals _____

number of adults equals _____

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● Question 16

 0/1 pt  3  99

You have one type of candy that sells for \$2.70/lb and another type of candy that sells for \$4.80/lb. You would like to have 14.7 lbs of a candy mixture that sells for \$4.70/lb. How much of each candy will you need to obtain the desired mixture?

You will need

_____ lbs of the cheaper candy

and

_____ lbs of the expensive candy.

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11.2: Graded Homework

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● Question 1

✓ 0/1 pt ↻ 3 ↺ 99

Determine if $(-6, 5, 4)$ is a solution to the following system:

$$3x - 6y + 2z = -40$$

$$x + 8y - 13z = -18$$

$$-4x - 11y + 7z = -3$$

☐ yes

☐ no

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● Question 2

✓ 0/1 pt ↻ 3 ↺ 99

The system of linear equations

$$\begin{cases} x + 7y + 8z = 4 \\ y - z = -5 \\ z = 2 \end{cases}$$

☐ has exactly 2 solutions

☐ has 0 solutions

☐ has infinitely many solutions

☐ has exactly 1 solution

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● Question 3

✓ 0/1 pt ↻ 3 ↺ 99

The system of linear equations

$$\begin{cases} -8x - 3y + 3z = 4 \\ 3x + y - z = 3 \\ 12x + 4y - 4z = 9 \end{cases}$$

- ☐ has more than 1 but finitely many solutions
- ☐ has exactly 1 solution
- ☐ has 0 solutions
- ☐ has infinitely many solutions

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● Question 4

 0/1 pt  3  99

Solve the system by back substitution

$$\begin{cases} 2x - 5y + 2z = -15 \\ \quad 4y - 4z = 32 \\ \quad \quad 5z = -25 \end{cases}$$

x = _____

y = _____

z = _____

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● Question 5

 0/1 pt  3  99

Solve the System. Give answer as (x, y, z) .

$$\begin{cases} -x - 5y + 3z = 13 \\ -2x + 5y - 4z = -19 \\ 4x + 5y - 6z = -19 \end{cases}$$

$(x, y, z) =$ _____

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● Question 6

 0/1 pt  3  99

Solve the system. Give your answer as (x, y, z)

$$4x - 4y - 3z = -6$$

$$6x + y - 3z = 16$$

$$5x + 2y + 6z = 1$$

$$(x, y, z) = \underline{\hspace{2cm}}$$

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● Question 7

☒ 0/1 pt  3  99

A movie theater has a seating capacity of 251. The theater charges \$5.00 for children, \$7.00 for students, and \$12.00 for adults. There are half as many adults as there are children. If the total ticket sales was \$ 1820, How many children, students, and adults attended?

children attended.

students attended.

adults attended.

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11.3: Graded Homework

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● Question 1

✓ 0/1 pt ↻ 3 ↺ 99

Is $x = -6$ and $y = 6$ a solution of the following inequalities?

$$-10x + 8y < -2$$

☐ Solution

☐ Not a solution

$$-10x + 8y \leq -2$$

☐ Solution

☐ Not a solution

$$-10x + 8y > -2$$

☐ Solution

☐ Not a solution

$$-10x + 8y \geq -2$$

☐ Solution

☐ Not a solution

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● Question 2

✓ 0/1 pt ↻ 3 ↺ 99

Is $x = 9$ and $y = -4$ a solution of the following inequalities?

$$-9x + 6y < 8$$

- ☐ Solution
☐ Not a solution

$$-9x + 6y \leq 8$$

- ☐ Solution
☐ Not a solution

$$-9x + 6y > 8$$

- ☐ Solution
☐ Not a solution

$$-9x + 6y \geq 8$$

- ☐ Solution
☐ Not a solution

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● Question 3

 0/1 pt  3  99

Which ordered pairs are solutions to the inequality $-2x + 3y \geq 3$?

- ☐ (2,3)
☐ (4,1)
☐ (0,1)
☐ (-1,2)

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● Question 4

 0/1 pt  3  99

Use the elimination method to find all solutions of the system:

$$\begin{cases} x^2 - 2y = 2 \\ x^2 + 5y = 9 \end{cases}$$

The two solutions of the system are:

(the one with $x < 0$ is)

$x =$

$y =$

(the one with $x > 0$ is)

$x =$

$y =$

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● Question 5

✓ 0/1 pt ↻ 3 ⇄ 99

Use the elimination method to find all solutions of the system

$$\begin{cases} 3x^2 - y^2 = 11 \\ x^2 + 4y^2 = 8 \end{cases}$$

The four solutions of the system are: $(-a, -b)$, $(-a, b)$, $(a, -b)$, and (a, b) with positive numbers

$a =$ and $b =$.

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● Question 6

✓ 0/1 pt ↻ 3 ⇄ 99

Use the elimination method to find all solutions of the system

$$\begin{cases} x^2 + y^2 = 7 \\ x^2 - y^2 = 1 \end{cases}$$

The four solutions of the system are:

the one with $x < 0, y < 0$ is

$x =$

$y =$

the one with $x < 0, y > 0$ is

$x =$

$y =$

the one with $x > 0, y < 0$ is

$x =$

$y =$

the one with $x > 0, y > 0$ is

$x =$

$y =$

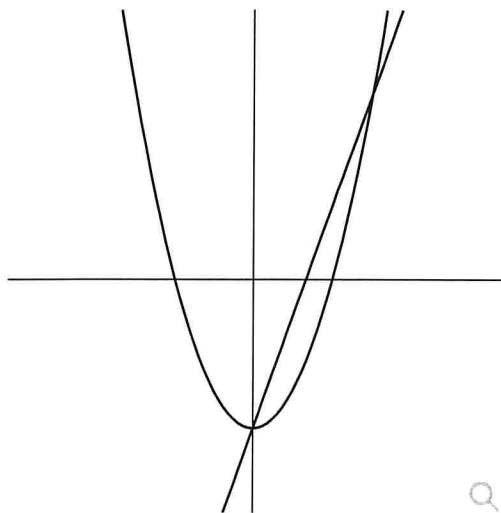
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● Question 7

☒ 0/1 pt 3

Find the solutions to the system of nonlinear equations given by:

$$\begin{cases} y = 3x - 4 \\ y = x^2 - 4 \end{cases}$$



Enter your answer as a list of ordered pair. For example: $(2, -5), (5, -2)$

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● Question 8

☒ 0/1 pt 3

Find all solutions of the system. Write solution(s) as a list of ordered pairs.

$$\begin{cases} y = 95 - x^2 \\ y = x^2 - 33 \end{cases}$$

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● Question 9

☒ 0/1 pt 3

Find the ordered pair solution(s) of the system. Write *solution(s)* as a list of ordered pairs if there is more than one solution. Write *DNE* if there is no solution.

$$\begin{cases} y = 25 - x^2 \\ y = x^2 - 25 \end{cases}$$

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● Question 10

☒ 0/1 pt 3

Use the substitution method to find all solutions of the system:

$$\begin{cases} y = x + 1 \\ xy = 2 \end{cases}$$

The solutions of the system are:

$x_1 =$, $y_1 =$ and
 $x_2 =$, $y_2 =$ with $x_1 < x_2$.

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11.5: Graded Homework

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● Question 1

✓ 0/1 pt ↻ 3 ↺ 99

Given the matrices $A = \begin{bmatrix} -3 & 0 & 1 \\ 5 & -3 & 0 \\ 2 & 1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} -5 & 2 & -2 \\ -2 & -3 & -4 \\ 5 & -2 & -2 \end{bmatrix}$

A. It is Select an answer ▼ to add these matrices.

B. If addition is possible what is $A + B$

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● Question 2

✓ 0/1 pt ↻ 3 ↺ 99

Given the matrices $A = \begin{bmatrix} -1 & -4 & 4 \\ 2 & 1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 0 & 0 \\ 0 & 0 & -2 \end{bmatrix}$

A. It is Select an answer ▼ to subtract these two matrices.

B. If subtraction is possible what is $A - B$

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● Question 3

✓ 0/1 pt ↻ 3 ↺ 99

If A is a 5×1 matrix and the sum $A + B$ can be computed, what is the dimension of B ?

$\times$

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● Question 4

✓ 0/1 pt ↻ 3 ⇄ 99

$$E = \begin{bmatrix} -8 & 0 & -9 & 3 \\ -2 & -10 & 8 & 2 \\ 10 & -5 & 6 & 1 \end{bmatrix}$$

$$2E =$$

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● Question 5

✓ 0/1 pt ↻ 3 ⇄ 99

$$[A] = \begin{bmatrix} 3 & -9 & -3 & -4 \\ 6 & -6 & 7 & 0 \\ -1 & -10 & -8 & 5 \\ 2 & -2 & 4 & 8 \end{bmatrix}$$

$$2[A] =$$

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● Question 6

✓ 0/1 pt ↻ 3 ⇄ 99

$$[B] = \begin{bmatrix} -7 & -4 & -3 & -10 & -9 \\ -6 & 10 & -5 & 8 & 6 \\ 0 & 9 & 3 & 7 & 4 \\ -8 & 1 & 5 & -1 & 2 \end{bmatrix} \quad [A] = \begin{bmatrix} -10 & 1 & 3 & 6 & 7 \\ 2 & 8 & -9 & -5 & -2 \\ 9 & -1 & -3 & 0 & 10 \\ 4 & 5 & -4 & -8 & -7 \end{bmatrix}$$

$$3[B] - 2[A] = \begin{bmatrix} \boxed{} & \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} & \boxed{} & \boxed{} \end{bmatrix}$$

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● Question 7

☒ 0/1 pt 3 99

Let

$$A = \begin{bmatrix} 5 & -10 \\ 6 & 3 \\ -3 & 4 \end{bmatrix}$$

and

$$B = \begin{bmatrix} -4 & 7 & -5 \\ 8 & -7 & 10 \end{bmatrix}$$

then use the matrices above to perform matrix multiplication $AB =$

$$\begin{bmatrix} \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \end{bmatrix}$$

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● Question 8

☒ 0/1 pt 3 99

$$\begin{bmatrix} -1 & 7 & 10 \\ 1 & -8 & -7 \\ -5 & 5 & 6 \end{bmatrix} \cdot \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \end{bmatrix}$$

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● Question 9

✓ 0/1 pt ↻ 3 🔁 99

Given $A = \begin{bmatrix} 1 \\ 0 \\ 4 \\ -2 \end{bmatrix}$ and $B = [6 \quad -7 \quad -1 \quad 8]$, find AB and BA .

$AB =$

$BA =$

Hint: Matrices need to be entered as [(elements of row 1 separated by commas), (elements of row 2 separated by commas), (elements of each row separated by commas)].

Example: $C = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$ would be entered as [(1, 2, 3), (4, 5, 6)]

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● Question 10

✓ 0/1 pt ↻ 3 🔁 99

Find the inverse of $A = \begin{bmatrix} -5 & 2 \\ -13 & 5 \end{bmatrix}$

$\begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$

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● Question 11

✓ 0/1 pt ↻ 3 🔁 99

Given $A = \begin{bmatrix} 3 & -9 \\ -4 & 6 \end{bmatrix}$, find A^{-1} . If A^{-1} does not exist, write "DNE" in each box.

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● Question 12

0/1 pt 3 99

Find the inverse of $A = \begin{bmatrix} 19 & 8 \\ -12 & -5 \end{bmatrix}$

☒ $A^{-1} =$

☐ Inverse does not exist.

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● Question 13

0/1 pt 3 99

[Hint 1](#)

Given $A = \begin{bmatrix} 8 & 28 \\ 2 & 7 \end{bmatrix}$, find A^{-1} . If A^{-1} does not exist, write "DNE" in each box.

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● Question 14

0/1 pt 3 99

Hint 1

Given $A = \begin{bmatrix} 3 & 2 \\ 15 & 10 \end{bmatrix}$, find A^{-1} . If A^{-1} does not exist, write "DNE" in each box.

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11.6: Graded Homework

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● Question 1

✓ 0/1 pt ↻ 3 ↺ 99

Write the system of equations as an augmented matrix

$$\begin{cases} -3x - 7a = -10 \\ -7x + 5a = -2 \end{cases}$$

$$\left[\begin{array}{cc|c} \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \end{array} \right]$$

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● Question 2

✓ 0/1 pt ↻ 3 ↺ 99

Write the system of equations as an augmented matrix

$$\begin{cases} -a + 7y + 7d = 190 \\ 4a + y - 2d = 36 \\ 6a - 3y + 7d = 141 \end{cases}$$

$$\left[\begin{array}{ccc|c} \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} & \underline{\hspace{2cm}} \end{array} \right]$$

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● Question 3

✓ 0/1 pt ↻ 3 ↺ 99

Write the augmented matrix as a system of equations

$$\begin{bmatrix} 1 & 0 & 0 & 200 \\ -2 & 1 & 0 & 300 \\ -9 & 3 & 1 & 350 \end{bmatrix}$$

$$\underline{\hspace{2cm}}x + \underline{\hspace{2cm}}y + \underline{\hspace{2cm}}z = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}}x + \underline{\hspace{2cm}}y + \underline{\hspace{2cm}}z = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}}x + \underline{\hspace{2cm}}y + \underline{\hspace{2cm}}z = \underline{\hspace{2cm}}$$

● Question 4

0/1 pt 3 99

Write out the matrix equation for this given system of equations

$$\begin{cases} a = 150 \\ 3a - 2b + x = 400 \\ -2a - 3b + x = 100 \end{cases}$$

$$\begin{bmatrix} \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \\ \boxed{} & \boxed{} & \boxed{} \end{bmatrix} \begin{bmatrix} \underline{} \\ \underline{} \\ \underline{} \end{bmatrix} = \begin{bmatrix} \boxed{} \\ \boxed{} \\ \boxed{} \end{bmatrix}$$

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● Question 5

0/1 pt 3 99

The linear system

$$7x + 6y = -55$$

$$7x + 7y = -56$$

can be written as the following augmented matrix.

$$\left[\begin{array}{cc|c} 7 & 6 & -55 \\ 7 & 7 & -56 \end{array} \right]$$

Solve for x and y .

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

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● Question 6

0/1 pt 3 99

The linear system

$$8x + 3y = -57$$

$$7x + 3y = -51$$

can be written as the following augmented matrix.

$$\left[\begin{array}{cc|c} 8 & 3 & -57 \\ 7 & 3 & -51 \end{array} \right]$$

Solve for x and y .

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

11.7: Graded Homework

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● Question 1

✓ 0/1 pt ↻ 3 ↺ 99

Every 2×2 matrix has an inverse.

☐ true

☐ false

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● Question 2

✓ 0/1 pt ↻ 3 ↺ 99

If A is a matrix with a row of zeros, then A does not have an inverse.

☐ true

☐ false

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● Question 3

✓ 0/1 pt ↻ 3 ↺ 99

Determine if

$$\begin{bmatrix} -2/13 & -3/26 \\ 1/13 & -5/26 \end{bmatrix}$$

and

$$\begin{bmatrix} -5 & 3 \\ -2 & -4 \end{bmatrix}$$

are inverses of each other.

☐ inverses

☐ not inverses

Question Help: [✉ Message instructor](#)

● Question 4

✓ 0/1 pt ↻ 3 ↺ 99

Find the inverse of $A = \begin{bmatrix} 1 & 1 \\ 2 & 3 \end{bmatrix}$

☒ $A^{-1} =$

$$\begin{bmatrix} \boxed{} & \boxed{} \\ \boxed{} & \boxed{} \end{bmatrix}$$

☐ Inverse does not exist.

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● Question 5

☒ 0/1 pt 3

Write the system of equations as an augmented matrix

$$\begin{cases} -7z - 5b = -12 \\ -5z - 3b = -8 \end{cases}$$

$$\left[\begin{array}{cc|c} \hline & & \\ \hline & & \\ \hline \end{array} \right]$$

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● Question 6

☒ 0/1 pt 3

Which system of equations is equivalent to the matrix equation below?

$$\begin{bmatrix} 7 & 40 \\ -3 & -17 \end{bmatrix} \cdot \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} -85 \\ 36 \end{bmatrix}$$

☐ $\begin{cases} 7x - 40y = -85 \\ -3x + 17y = 36 \end{cases}$

☐ $\begin{cases} 7x + 40y = -85 \\ -3x - 17y = 36 \end{cases}$

☐ $\begin{cases} 7x - 40y = -85 \\ -3x - 17y = 36 \end{cases}$

☐ $\begin{cases} 7x + 40y = -85 \\ -3x + 17y = 36 \end{cases}$

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● Question 7

☒ 0/1 pt 3

Solve the system of equations

$$\begin{cases} -2x + 5y = -165 \\ 3x - 8y = 247 \end{cases}$$

by converting to a matrix equation and using the inverse of the coefficient matrix.

$x =$

$y =$

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● Question 8

✓ 0/1 pt ↻ 3 ⇌ 99

Solve the system of equations

$$\begin{cases} -6x - 6y = -330 \\ 5x - 2y = -145 \end{cases}$$

by converting to a matrix equation and using the inverse of the coefficient matrix.

$x =$

$y =$

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● Question 9

✓ 0/1 pt ↻ 3 ⇌ 99

The Nutty Professor sells cashews for \$6.00 per pound and Brazil nuts for \$4.40 per pound. How much of each type should be used to make a 37 pound mixture that sells for \$4.92 per pound?

Round answers to the nearest pound.

pounds of cashews

pounds of Brazil nuts

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● Question 10

✓ 0/1 pt ↻ 3 ⇌ 99

A chemist has 30% and 50% solutions of acid available. How many liters of each solution should be mixed to obtain 92 liters of 35% acid solution?

liters of 30% acid

liters of 50% acid

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● Question 11

✓ 0/1 pt ↻ 3 ⇌ 99

The *'I will Fleece you' Company, LLC* sold 41 neck warmers. Tiger fleece neck warmers sold for \$10.80 each and fluffy wool ones sold for \$8.05 each. In all, \$387.80 was taken in for the neck warmers. How many of each type were sold?

Round answers to the nearest whole sweater.

tiger fleece were sold.

fluffy wool were sold.

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