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# Unit 2 Homework Assignment (3.1, 3.2) (Homework)

INSTRUCTOR  
**James Segala**  
 Post University.CT

## Current Score

QUESTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
POINTS	-/1	-/1	-/1	-/1	-/1	-/2	-/2	-/2	-/4	-/4	-/6	-/6	-/6	-/1	-/1	-/1	-/2	-/2

**TOTAL SCORE**

-/44	<b>0.0%</b>
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## Due Date

**FRI, DEC 17, 2021**  
 10:58 PM CST

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## Assignment Submission & Scoring

### Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

### Assignment Scoring

Your best submission for each question part is used for your score.

1. [-/1 Points]

DETAILS

BERRFINMATH1 3.1.001.

MY NOTES

ASK YOUR TEACHER

PRACTICE ANOTHER

Solve the system by graphing. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

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

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

## Additional Materials

- [eBook](#)

Show My Work (Optional) ?

Solve the system by graphing. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

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

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

## Additional Materials

- [eBook](#)

Show My Work (Optional) ?

Solve the system by the elimination method. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\begin{cases} x + y = 9 \\ 2x + 3y = 22 \end{cases}$$

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Solve the system by the elimination method. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\begin{cases} 3x + y = 11 \\ x + 2y = 12 \end{cases}$$

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Solve the system by the elimination method. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\begin{cases} 2x + 5y = 63 \\ 2x + 3y = 49 \end{cases}$$

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Formulate the situation as a system of two linear equations in two variables. Be sure to state clearly the meaning of your  $x$ - and  $y$ -variables. Solve the system by the elimination method. Be sure to state your final answer in terms of the original question.

A lawyer has found 60 investors for a limited partnership to purchase an inner-city apartment building, with each contributing either \$6,000 or \$12,000. If the partnership raised \$486,000, then how many investors contributed \$6,000 and how many contributed \$12,000?

$$x = \text{[input box]} \text{ \$6,000 investors}$$

$$y = \text{[input box]} \text{ \$12,000 investors}$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Formulate the situation as a system of two linear equations in two variables. Be sure to state clearly the meaning of your  $x$ - and  $y$ -variables. Solve the system by the elimination method. Be sure to state your final answer in terms of the original question.

A jar contains 60 nickels and dimes worth \$5.30. How many of each kind of coin are in the jar?

$$x = \text{[input box]} \text{ nickels}$$

$$y = \text{[input box]} \text{ dimes}$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Formulate the situation as a system of two linear equations in two variables. Be sure to state clearly the meaning of your  $x$ - and  $y$ -variables. Solve the system by the elimination method. Be sure to state your final answer in terms of the original question.

The concession stand at an ice hockey rink had receipts of \$7400 from selling a total of 3200 sodas and hot dogs. If each soda sold for \$2 and each hot dog sold for \$3, how many of each were sold?

$$x = \text{[input box]} \text{ sodas}$$

$$y = \text{[input box]} \text{ hot dogs}$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Find the dimension of the matrix.

$$\begin{pmatrix} 4 & 1 \\ 8 & 7 \\ 4 & 3 \end{pmatrix}$$

 × 

Find the values of the specified elements.

$a_{1,1} =$

$a_{3,2} =$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Find the dimension of the matrix.

$$\begin{pmatrix} 8 & 5 & -8 & -3 \\ -5 & 6 & -4 & 7 \\ -6 & 8 & 3 & -7 \end{pmatrix}$$

 × 

Find the values of the specified elements.

$a_{2,2} =$

$a_{3,4} =$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Find the augmented matrix representing the system of equations.

$$\begin{cases} x + 2y = 9 \\ 3x + 7y = 12 \end{cases}$$

$$\left( \begin{array}{cc|c} \hline \input{type="text"} & \input{type="text"} & \input{type="text"} \\ \hline \input{type="text"} & \input{type="text"} & \input{type="text"} \\ \hline \end{array} \right)$$

**Additional Materials**

- [eBook](#)

Show My Work (Optional) 

Find the augmented matrix representing the system of equations.

$$\begin{cases} 3x - 6y = 18 \\ x = 4 \end{cases}$$

$$\left( \begin{array}{cc|c} \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \end{array} \right)$$

Additional Materials

- [eBook](#)

Show My Work (Optional) 

Carry out the row operation on the matrix.

$$R_1 - R_2 \rightarrow R_1 \text{ on } \left( \begin{array}{cc|c} 3 & 5 & 58 \\ 6 & 7 & 59 \end{array} \right)$$

$$\left( \begin{array}{cc|c} \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \end{array} \right)$$

Additional Materials

- [eBook](#)

Show My Work (Optional) 

Interpret the augmented matrix as the solution of a system of equations. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\left( \begin{array}{cc|c} 1 & 0 & 3 \\ 0 & 1 & -4 \end{array} \right)$$

$$(x, y) = \left( \begin{array}{c} \boxed{\phantom{00}} \\ \boxed{\phantom{00}} \end{array} \right)$$

Additional Materials

- [eBook](#)

Show My Work (Optional) 

Interpret the augmented matrix as the solution of a system of equations. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\left( \begin{array}{cc|c} 2 & 4 & 8 \\ 0 & 0 & 1 \end{array} \right)$$

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

#### Additional Materials

- [eBook](#)

Show My Work (Optional) 

Solve the system by row-reducing the corresponding augmented matrix. (Enter your answers as a comma-separated list. If the system is inconsistent, enter INCONSISTENT. If the system is dependent, enter DEPENDENT.)

$$\begin{cases} 2x + y = 20 \\ x + y = 14 \end{cases}$$

$$(x, y) = \left( \begin{array}{c} \text{[input box]} \\ \text{[input box]} \end{array} \right)$$

#### Additional Materials

- [eBook](#)

Show My Work (Optional) 

Express the situation as a system of two equations in two variables. Be sure to state clearly the meaning of your  $x$ - and  $y$ -variables. Solve the system by row-reducing the corresponding augmented matrix. State your final answer in terms of the original question.

A corn and soybean commodities speculator invested \$24,000 yesterday with twice as much in soybean futures as in corn futures. How much did she invest in each?

$x = \$$   invested in corn futures

$y = \$$   invested in soybean futures

#### Additional Materials

- [eBook](#)

Show My Work (Optional) 

Express the situation as a system of two equations in two variables. Be sure to state clearly the meaning of your  $x$ - and  $y$ -variables. Solve the system by row-reducing the corresponding augmented matrix. State your final answer in terms of the original question.

For the final days before the election, the campaign manager has a total of **\$38,000** to spend on TV and radio campaign advertisements. Each TV ad costs \$3000 and is seen by 10,000 voters, while each radio ad costs \$500 and is heard by 2000 voters. Ignoring repeated exposures to the same voter, how many TV and radio ads will contact **134,000** voters using the allocated funds?

$x =$   TV ads

$y =$   radio ads

#### Additional Materials

- [eBook](#)

Show My Work (Optional) 

Question 1 of 18

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