

1. -/1 pointsBerrFinMath1 3.1.001.

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.)

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

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

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2. -/1 pointsBerrFinMath1 3.1.002.

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.)

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

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

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3. -/1 pointsBerrFinMath1 3.1.003.

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.)

$$\begin{cases} x + y = 6 \\ 2x + 3y = 16 \end{cases}$$

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

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4. -/1 pointsBerrFinMath1 3.1.004.

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.)

$$\begin{cases} 3x + y = 18 \\ x + 2y = 16 \end{cases}$$

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

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5. -/1 pointsBerrFinMath1 3.1.006.

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.)

$$\begin{cases} 2x + 5y = 72 \\ 2x + 3y = 56 \end{cases}$$

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

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6. -/2 pointsBerrFinMath1 3.1.008.

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 \$480,000, then how many investors contributed \$6,000 and how many contributed \$12,000?

 $x =$ \$6,000 investors $y =$ \$12,000 investors

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7. -/2 pointsBerrFinMath1 3.1.009.

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 70 nickels and dimes worth \$6.10. How many of each kind of coin are in the jar?

 $x =$ nickels $y =$ dimes

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8. -/2 pointsBerrFinMath1 3.1.010.

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 \$8400 from selling a total of 3600 sodas and hot dogs. If each soda sold for \$2 and each hot dog sold for \$3, how many of each were sold?

 $x =$ sodas $y =$ hot dogs

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9. -/4 pointsBerrFinMath1 3.2.001.

Find the dimension of the matrix.

$$\begin{pmatrix} 6 & 3 \\ 7 & 6 \\ 2 & 1 \end{pmatrix}$$

 ×

Find the values of the specified elements.

$a_{1,1} =$

$a_{3,2} =$

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10. -/4 pointsBerrFinMath1 3.2.002.

Find the dimension of the matrix.

$$\begin{pmatrix} -4 & -6 & 5 & 7 \\ 3 & 6 & -1 & -8 \\ -7 & 8 & 7 & -8 \end{pmatrix}$$

 ×

Find the values of the specified elements.

$a_{2,2} =$

$a_{3,4} =$

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11. -/6 pointsBerrFinMath1 3.2.003.

Find the augmented matrix representing the system of equations.

$$\begin{cases} x + 7y = 9 \\ 2x + 5y = 12 \end{cases}$$

$$\left(\begin{array}{cc|c} \hline \hline \hline \end{array} \right)$$

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12. -/6 pointsBerrFinMath1 3.2.004.

Find the augmented matrix representing the system of equations.

$$\begin{cases} 2x - 6y = 18 \\ x = 4 \end{cases}$$

$$\left(\begin{array}{cc|c} \hline \hline \hline \end{array} \right)$$

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13.~/6 pointsBerrFinMath1 3.2.006.

Carry out the row operation on the matrix.

$$R_1 - R_2 \rightarrow R_1 \text{ on } \left(\begin{array}{cc|c} 9 & 4 & 52 \\ 3 & 2 & 57 \end{array} \right)$$

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

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14.~/1 pointsBerrFinMath1 3.2.008.

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.)

$$\left(\begin{array}{cc|c} 1 & 0 & 3 \\ 0 & 1 & -5 \end{array} \right)$$

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

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15.~/1 pointsBerrFinMath1 3.2.009.

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.)

$$\left(\begin{array}{cc|c} 8 & 5 & 9 \\ 0 & 0 & 1 \end{array} \right)$$

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

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16.~/1 pointsBerrFinMath1 3.2.011.

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.)

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

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

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17. -/2 points BerrFinMath1 3.2.014.

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 \$30,000 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

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18. -/2 points BerrFinMath1 3.2.015.

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 \$42,000 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 148,000 voters using the allocated funds?

$x =$ TV ads

$y =$ radio ads

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1. -/1 pointsBerrFinMath1 3.1.001.

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.)

$$\begin{cases} x + y = 6 \\ x - y = 2 \end{cases}$$

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

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2. -/1 pointsBerrFinMath1 3.1.004.

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.)

$$\begin{cases} 3x + y = 12 \\ x + 2y = 14 \end{cases}$$

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

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3. -/1 pointsBerrFinMath1 3.1.005.

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.)

$$\begin{cases} x + 2y = 11 \\ 3x + 4y = 29 \end{cases}$$

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

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4. -/1 pointsBerrFinMath1 3.1.006.

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.)

$$\begin{cases} 2x + 5y = 56 \\ 2x + 3y = 44 \end{cases}$$

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

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5. -/2 pointsBerrFinMath1 3.1.008.

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 \$5,000 or \$10,000. If the partnership raised \$420,000, then how many investors contributed \$5,000 and how many contributed \$10,000?

$x =$ \$5,000 investors
 $y =$ \$10,000 investors

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6. -/2 pointsBerrFinMath1 3.1.009.

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 50 nickels and dimes worth \$3.40. How many of each kind of coin are in the jar?

$x =$ nickels
 $y =$ dimes

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7. -/2 pointsBerrFinMath1 3.1.010.

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 \$9400 from selling a total of 3800 sodas and hot dogs. If each soda sold for \$2 and each hot dog sold for \$3, how many of each were sold?

$x =$ sodas
 $y =$ hot dogs

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8. -/6 pointsBerrFinMath1 3.2.006.

Carry out the row operation on the matrix.

$$R_1 - R_2 \rightarrow R_1 \text{ on } \left(\begin{array}{cc|c} 3 & 9 & 50 \\ 4 & 2 & 54 \end{array} \right)$$

$$\left(\begin{array}{cc|c} \hline \hline \hline \hline \end{array} \right)$$

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9. -/6 pointsBerrFinMath1 3.2.007.

Carry out the row operation on the matrix.

$$\frac{1}{7}R_2 \rightarrow R_2 \text{ on } \left(\begin{array}{cc|c} 7 & -4 & -40 \\ 0 & 7 & 140 \end{array} \right)$$

$$\left(\begin{array}{cc|c} \hline \hline \hline \hline \end{array} \right)$$

Show My Work (Optional) 

10. -/1 pointsBerrFinMath1 3.2.008.

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.)

$$\left(\begin{array}{cc|c} 1 & 0 & 3 \\ 0 & 1 & -9 \end{array} \right)$$

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

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11. -/1 pointsBerrFinMath1 3.2.011.

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.)

$$\begin{cases} 2x + y = 16 \\ x + y = 12 \end{cases}$$

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

Show My Work (Optional) 

12. -/2 pointsBerrFinMath1 3.2.015.

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 \$36,000 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 130,000 voters using the allocated funds?

$x =$ TV ads

$y =$ radio ads

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