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I deposited $5000 in 3 accounts for one Year, Simple interest.

One pays 2/., one pays 4/., and last one Pays 5/. interest Total interest made was $214) money invest in 5/. rate was $600 less than three times the money invested at 4/. account.

How much per account?

x \rightarrow 2/. rate

x \rightarrow 2/. rate
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I have (II) coins.

Nickels, Dimes, Quarters only.

Total Value 90¢.)

# Dimes is three times # Quarters.

How many of each?

N+Nickels

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+D+Q=II

N+2D+5Q=18

Thursday

D-3Q=0
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$$\begin{cases} N + D + Q = 11 \\ N + 2D + 5Q = 18 \\ D - 3Q = 0 \Rightarrow D = 3Q \end{cases}$$

$$\begin{cases} N + 3Q + Q = 11 & -15 \\ N + 4Q = 11 \end{cases}$$

$$\begin{cases} N + 2(3Q) + 5Q = 18 \\ N + 11Q = 18 \end{cases}$$

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Caraph of the equation
$$y=0x^2+bx+C$$

contains the points $(1,10), (-1,4), \text{ and } (2,19)$
Sind the equation.
 $(1,10) \Rightarrow 10=0(1)^2+b(1)+C \Rightarrow 0+b+C=10$
 $(-1,4) \Rightarrow 4=0(-1)^2+b(-1)+C \Rightarrow 0-b+C=4$
 $(2,19) \Rightarrow 19=0(2)^2+b(2)+C \Rightarrow 140+2b+C=19$
You should Solve by Sind a,b, and C.

write this system in an augmented Matrix:

$$\begin{cases} 3\chi & -2\xi=5 \\ \chi & -4y & =8 \\ 2\chi & +3y +4\xi=0 \end{cases} = \begin{cases} 3 & 0 & -2 & 5 \\ 1 & -4 & 0 & 8 \\ 2 & 3 & 4 & 0 \end{cases}$$

Elementary Row Operations:

- 1) Two rows can be interchanged,
- 2) Multiply any row by any nonzero number.
- 3) Multiply any row by any nonzero number, then add to any other row.

Consider the matrix below:
$$\begin{bmatrix} 3 & 18 & -21 & 12 \\ 1 & 2 & -3 & 5 \\ -2 & -3 & 4 & -6 \end{bmatrix}$$
1) $R_{1} \rightarrow R_{2}$ $\begin{bmatrix} 1 & 2 & -3 & 5 \\ 3 & 18 & -21 & 12 \\ -2 & -3 & 4 & -6 \end{bmatrix}$
2) $\frac{1}{3}R_{2} \rightarrow R_{2}$ $\begin{bmatrix} 1 & 2 & -3 & 5 \\ 1 & 6 & -7 & 4 \\ -2 & -3 & 4 & -6 \end{bmatrix}$
3) $2R_{1} + R_{3} \rightarrow R_{3}$ $\begin{bmatrix} 1 & 2 & -3 & 5 \\ 1 & 6 & -7 & 5 \\ 0 & 1 & -2 & 4 \end{bmatrix}$

Consider the matrix below:
$$\begin{bmatrix}
4 & -3 & | & -15 \\
1 & 2 & | & -1\end{bmatrix}$$
Perform the Sollowing:
$$\begin{bmatrix}
1 & 2 & | & -11 \\
4 & -3 & | & -15\end{bmatrix}$$
Perform the Sollowing:
$$\begin{bmatrix}
1 & 2 & | & -11 \\
0 & -11 & | & -11\end{bmatrix}$$

$$2)(4)R_1 + R_2 + R_2$$

$$\begin{bmatrix}
1 & 2 & | & -11 \\
0 & -11 & | & -11\end{bmatrix}$$

$$2)(4)R_1 + R_2 + R_2$$

$$\begin{bmatrix}
1 & 2 & | & -11 \\
0 & 1 & | & 1\end{bmatrix}$$

$$4)(4)R_2 + R_1 + R_1$$

$$7 = \begin{bmatrix}
1 & 0 & | & -31 \\
0 & 1 & | & 1\end{bmatrix}$$

Solving System of linear equations by

Matrix method:

$$\begin{cases}
2x - y = -4 & \text{(1) Set-up the augmented Matrix.} \\
2x + 3y = 5 & \text{(2) } -1 & \text{(3) } 5
\end{cases}$$

Persorm elementary row operations to get

$$\begin{bmatrix}
2 & -1 & -4 \\
1 & 3 & 5
\end{bmatrix}$$

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$$\begin{bmatrix}
1 & 3 & 5 \\
2 & -1 & -$$

Solve by matrix method:

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

$$\begin{cases}
-1 & 1 & 6 \\
1 & -1 & 2
\end{cases}$$

$$\begin{cases}
-1 & 1 & 6 \\
2 & -4
\end{cases}$$

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-1 & 1 & 6 \\
2 & -4
\end{cases}$$
Final Ans: $(4,2)$

$$\begin{cases}
(4,2)$$

$$\begin{cases}
(4,2)$$

$$\end{cases}$$

Solve by matrix method:

$$\begin{cases} 2x + y = 3 \\ x - 3y = 12 \end{cases} \Rightarrow \begin{bmatrix} 2 & 1 & | & 3 \\ 1 & -3 & | & 12 \end{bmatrix}$$

$$R_1 \mapsto R_2 \qquad \begin{bmatrix} 1 & -3 & | & 12 \\ 2 & 1 & | & 3 \end{bmatrix}$$

$$(-2)R_1 + R_2 + R_2 \qquad \begin{bmatrix} 1 & -3 & | & 12 \\ 0 & 1 & | & -21 \end{bmatrix}$$

$$R_2 \div 7 \rightarrow R_2 \qquad \begin{bmatrix} 1 & -3 & | & 12 \\ 0 & 1 & | & -3 \end{bmatrix}$$

$$(3)R_2 + R_1 \rightarrow R_1 \qquad \begin{bmatrix} 1 & 0 & | & 3 & | & x = 3 \\ 0 & 1 & | & -3 & | & y = -3 \end{bmatrix}$$
Final Ans $(3, -3)$

$$\begin{cases} x + y - \overline{z} = -2 \\ 2x - y + \overline{z} = 5 \\ -x + 2y + 2\overline{z} = 1 \end{cases} = 7 \begin{bmatrix} 1 & -1 & -2 \\ 2 & -1 & 1 & 5 \\ 1 & 2 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 & -1 & | & -2 \\ 0 & -3 & 3 & | & 9 \\ 0 & 3 & 1 & | & -1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 & -1 & | -2 \\ 0 & 1 & -1 & | -3 \\ 0 & 3 & 1 & | -1 \end{bmatrix}$$

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Class QZ 12

Solve Sor [x only] using Cramer's rule.

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

$$D = \begin{vmatrix} 4 & -3 \\
1 & 1 \end{vmatrix} = 4(1) - 1(-3) = 17$$

$$\lambda_{x} = \begin{vmatrix} 5 & -3 \\
3 & 1 \end{vmatrix} = 5(1) - 3(-3) = 14$$

$$\chi = \frac{\lambda_{x}}{\lambda_{y}} = \frac{14}{\lambda_{y}} = \frac{1}{\lambda_{y}} = \frac{$$