Query



Creation

Given the equations 3x+y=17, 5y+z=14 and 3x+5z=41, what is the value of the sum x+y+z?

Decision

Make Decisions about How to Apply the Tool

- 1. Use the tool to get the solution for equation system
- 2. Take the sum over the solutions to find the answer

Decision

```
solution = solve_equations(equations)
target = sum(solution)
```

Created Tool

solve_equations(equations)

Documentation

Solves a system of linear equations using **numpy.linalg.solve**; Takes in a list of equations in the form of 2D arrays; Returns a list of the solutions to the system.

Realization

If Error Occurs: If Success:

Traceback:

At line (Error Reasons)

Printed:

The result of x + y + z is 12

Tool: Code Format

def solve_equations(equations):

Decision: Code Format

equations = [[3,1,0,17], [0,5,1,14],
[3,0,5,41]]
solution = solve_equations(equations)
target = np.sum(solution)
print("The sum of x + y + z is", target)

Answer

EXEC

The Answer for this Query is 12.

Rectification

