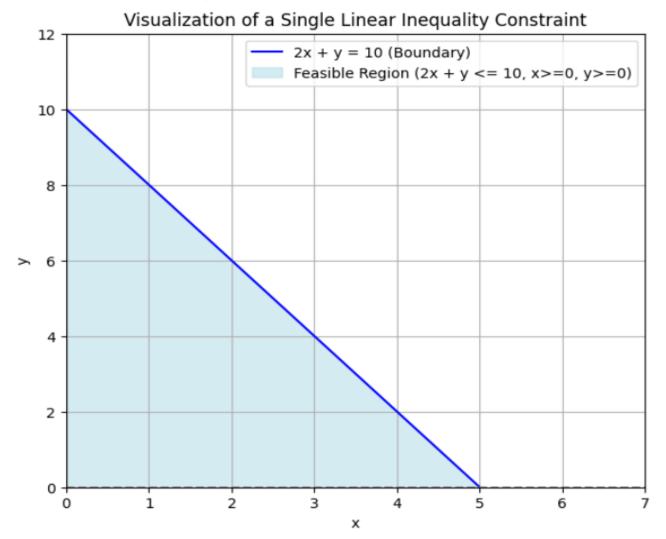
Simple Linear Algebra: Matrix Operations

```
--- PBD-1803: Linear Algebra - Simple Matrix Operations ---
Matrix A:
[[1 2]
[3 4]]
Matrix B:
[[5 6]
 [7 8]]
Matrix A + B (Element-wise Addition):
[[ 6 8]
 [10 12]]
Matrix A @ B (Matrix Multiplication):
[[19 22]
 [43 50]]
Transpose of Matrix A:
[[1 3]
 [2 4]]
```

These are foundational operations used extensively in various algorithms like regression and machine learning.

Simple Linear Programming: Visualizing a Single Constraint

--- PBD-1803: Linear Programming - Simple Constraint Visualization ---



This visualization shows how a single linear inequality defines a 'feasible region' where solutions can exist within a linear programming problem.