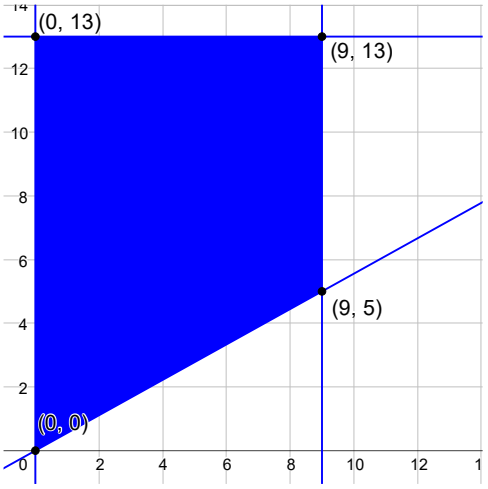
Precalculus

8-06 Linear Programming

- _____strategy
  - _____or _____
- _____function to optimize
- _____– system of inequalities



Steps for Linear Programming

1. Graph _____and find _____of solution
   - Max or min will be at _____
2. Plug _____into _____function to find min or max

Find the minimum value of $z = 4x + 6y$ subject to

$$\begin{cases} x \geq 0 \\ y \geq 0 \\ x + y \geq 2 \\ y \leq 4 \\ x \leq 5 \end{cases}$$