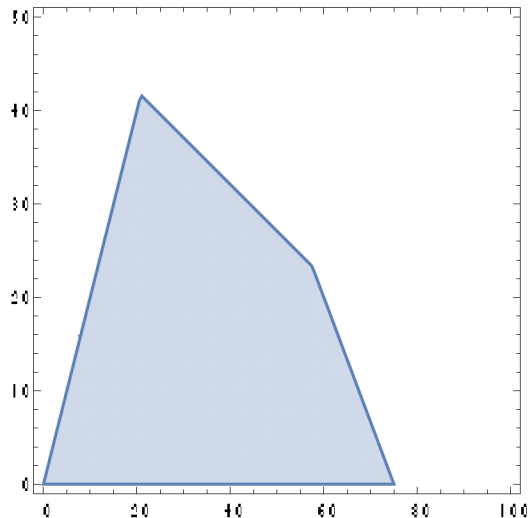```
RegionPlot[4 x + 3 y ≤ 300 && x + 2 y ≤ 625 / 6 && -2 x + y ≤ 0 && x ≥ 0 && y ≥ 0,
 {x, 0, 100}, {y, 0, 50}]
```



```
Maximize[{13 x + 9 y,
   4 x + 3 y ≤ 300 && x + 2 y ≤ 625 / 6 && -2 x + y ≤ 0 && x ≥ 0 && y ≥ 0}, {x, y}]
```

{975, {x → 75, y → 0}}