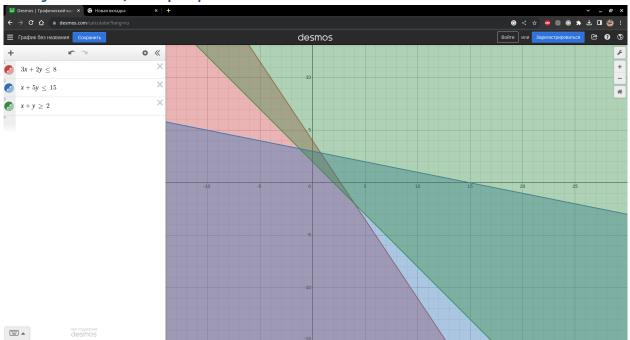
Задание 19

19	Столяров Никита Сергеевич	$z = 3x_1 + 3x_2 \rightarrow min$ $\begin{cases} 3x_1 + 2x_2 \le 8, \\ x_1 + 5x_2 \le 15, \\ x_1 + x_2 \ge 2, \\ x_1, x_2 \ge 0. \end{cases}$
----	---------------------------	---

Визуализация графика



Листинг программы

Результат работы

```
stolar@stolar-NMH-WCX9:~/PROJECTS/Programming-GUAP/statistic/2$ python3 main.py
        message: Optimization terminated successfully. (HiGHS Status 7: Optimal)
        success: True
         status: 0
            fun: -8.76923076923077
              x: [ 2.154e+00 7.692e-01]
            nit: 2
          lower: residual: [ 2.154e+00 7.692e-01]
                 marginals: [ 0.000e+00 0.000e+00]
          upper: residual: [ inf inf]
marginals: [ 0.000e+00 0.000e+00]
          eqlin: residual: []
                marginals: []
        ineqlin: residual: [ 0.000e+00 0.000e+00 7.692e-02]
                 marginals: [-9.231e-01 -2.308e-01 -0.000e+00]
mip_node_count: 0
mip_dual_bound: 0.0
       mip_gap: 0.0
оптимальное решение: Х: 2.1538461538461537
```