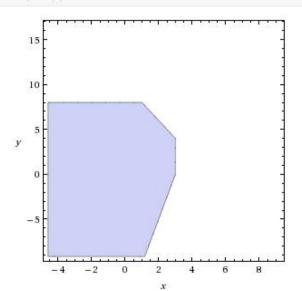
```
Input interpretation:
```

$$2x + y < 10 \land 5x - y < 15 \land x < 3 \land y < 8$$

Inequality plot:



Let's evaluate partial derivatives of 5x + 2y

$$\frac{\partial f}{\partial x} = 5; \frac{\partial f}{\partial y} = 2$$

Consequently this function has no critical points inside the domain on the plot  $\Rightarrow$  it has critical points on the bound of domain. The curves that draw this domain are regular  $\Rightarrow$  the critical points can be only the points of intersection of curves. These points are:

(3;0) (3;4)

(1;8)

Substitution this values to f gives us that maximum value is achieved in the point (3;4) and equals 23.