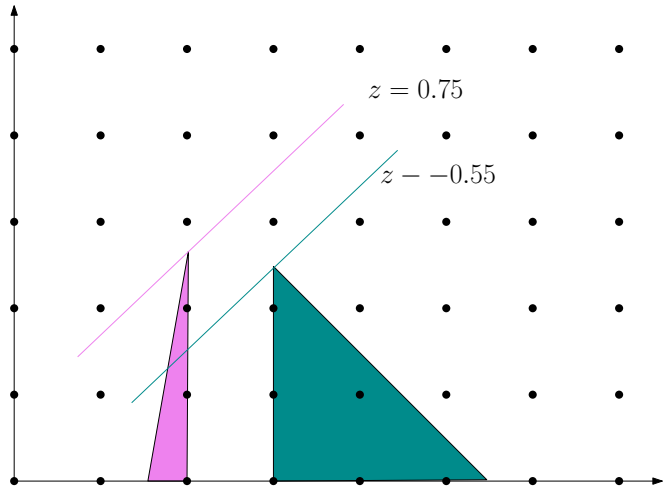


(2.12, 3.41)

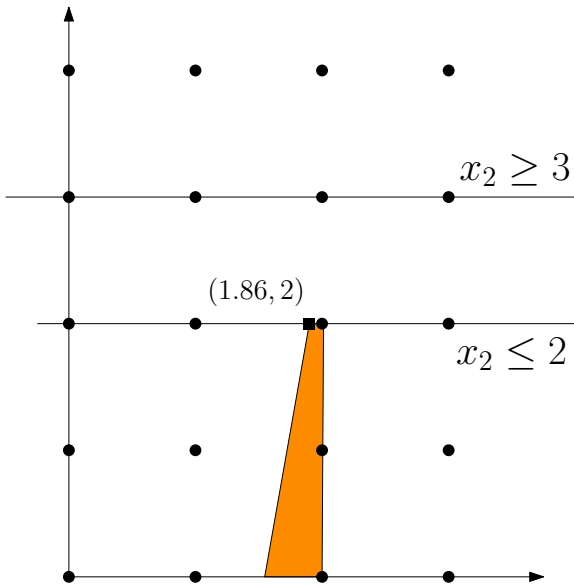
$z = 1.29$

$$\begin{aligned} \max \quad & -x_1 + x_2 \\ & 12x_1 + 11x_2 \leq 63 \\ & -22x_1 + 4x_2 \leq -33 \\ & x_i \geq 0 \\ & x_i \in \mathbb{Z} \end{aligned}$$

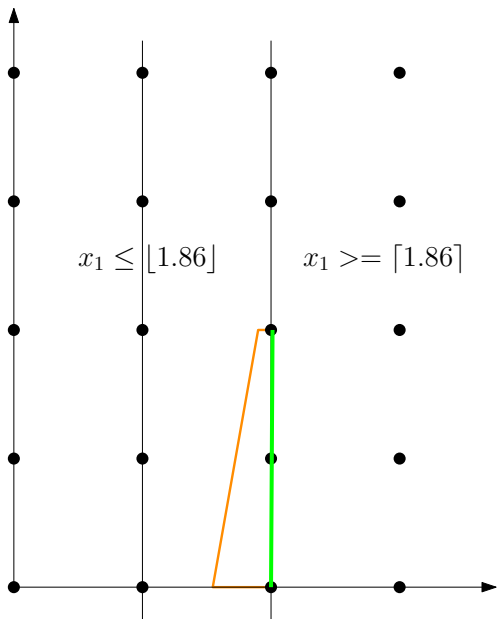


$$x_1 \leq \lfloor 2.12 \rfloor = 2$$

$$x_1 \geq \lceil 2.12 \rceil = 3$$



$$x_2 \leq \lfloor 2.75 \rfloor = 2$$
$$x_2 \geq \lceil 2.75 \rceil = 3$$



- First integer solution $(2, 2), z = 0$

