1. I would like to visualize the 2-simplex obtained using the system

$$x + y + z \leq 12 \tag{1}$$

with $x \geq 0$, $y \geq 0$, $z \geq 0$.

That is, the angles of the triangle (in $\mathbb{R}^2$) are (12, 0, 0), (0, 12, 0) and (0, 0, 12). (See the graphic below)

2. The CORE of a cooperative game is the set of points obtained considering the additional system of inequalities:

$$x + y \geq 6 \tag{2}$$

$$x + z \geq 6 \tag{3}$$

$$y + z \geq 6 \tag{4}$$

I would like to be able to obtain –if possible using MAPLE– a graphic similar to the one below.