All Meals for a Dollar

$$3x_1 + 24x_2 + 13x_3 + 9x_4 + 20x_5 + 19x_6 \leq 100$$

$$0 \leq x_1 \leq 4$$
$$0 \leq x_2 \leq 3$$
$$0 \leq x_3 \leq 2$$
$$0 \leq x_4 \leq 8$$
$$0 \leq x_5 \leq 2$$
$$0 \leq x_6 \leq 2$$

$$\begin{aligned} 110x_1 + 205x_2 + 160x_3 + 160x_4 + 420x_5 + 260x_6 &\geq 2000 \\ 4x_1 + 32x_2 + 13x_3 + 8x_4 + 4x_5 + 14x_6 &\geq 55 \\ 2x_1 + 12x_2 + 54x_3 + 285x_4 + 22x_5 + 80x_6 &\geq 800 \end{aligned}$$

Vertex Enumeration Problem:
Compute all vertices of this polyhedron.