

MOG PL projet

$$1. 1) \max g(x) = \min_{i=1,2} z_i(x) \\ = \begin{cases} z_1(x) & \text{si } z_1(x) < z_2(x) \\ z_2(x) & \text{sinon} \end{cases} \quad \text{si } z_1(x) - z_2(x) < 0$$

$$PL: \max g(x)$$

$$\begin{cases} x_i \leq 1 \quad \forall i \in \{1, \dots, 10\} \\ 70x_1 - 2x_2 + 18x_3 - 4x_4 + 16x_5 - 6x_6 + 14x_7 - 8x_8 + 12x_9 - 10x_{10} - 12x_1 + 8x_2 - 14x_3 + 6x_4 - 16x_5 + 4x_6 - 18x_7 + 2x_8 - 70x_{10} \\ = 68x_1 + 14x_2 + 10x_3 + 6x_4 + 2x_5 - 2x_6 - 6x_7 - 10x_8 - 14x_9 - 68x_{10} < 0 \end{cases}$$