

Establishing no set of beliefs make s_i a best response

	C_1	C_2	C_3
R_1	4, 1	1, 1	2, 5
R_2	2, 2	2, 0	3, 3
R_3	2, 5	1, 1	1, 4

$$\Theta_C(P_1, P_2, 1 - P_1 - P_2)$$

$$V_R(R_3, \Theta_C) = 2 - P_1 + (1 \cdot P_2) + [1 \cdot (1 - P_1 - P_2)]$$

$$= 1 + P_2$$

$$V_R(R_2, \Theta_C) = 2P_1 + 2P_2 + 3(1 - P_1 - P_2)$$

$$= 3 - P_1 - P_2$$

$$V_R(R_3, \Theta_C) = 4P_1 + 1P_2 + 2(1 - P_1 - P_2)$$

$$= 2 + 2P_1 - P_2$$

$$V_R(R_3) > V_R(R_2) > 0$$

$$\hookrightarrow 1 + P_2 - 3 + P_1 + P_2 \geq 0$$

$$-2 + 2P_1 + P_2 \geq 0$$

$$P_2 \geq 2 - 2P_1$$

$$V_R(R_3) > V_R(R_1) \geq 0$$

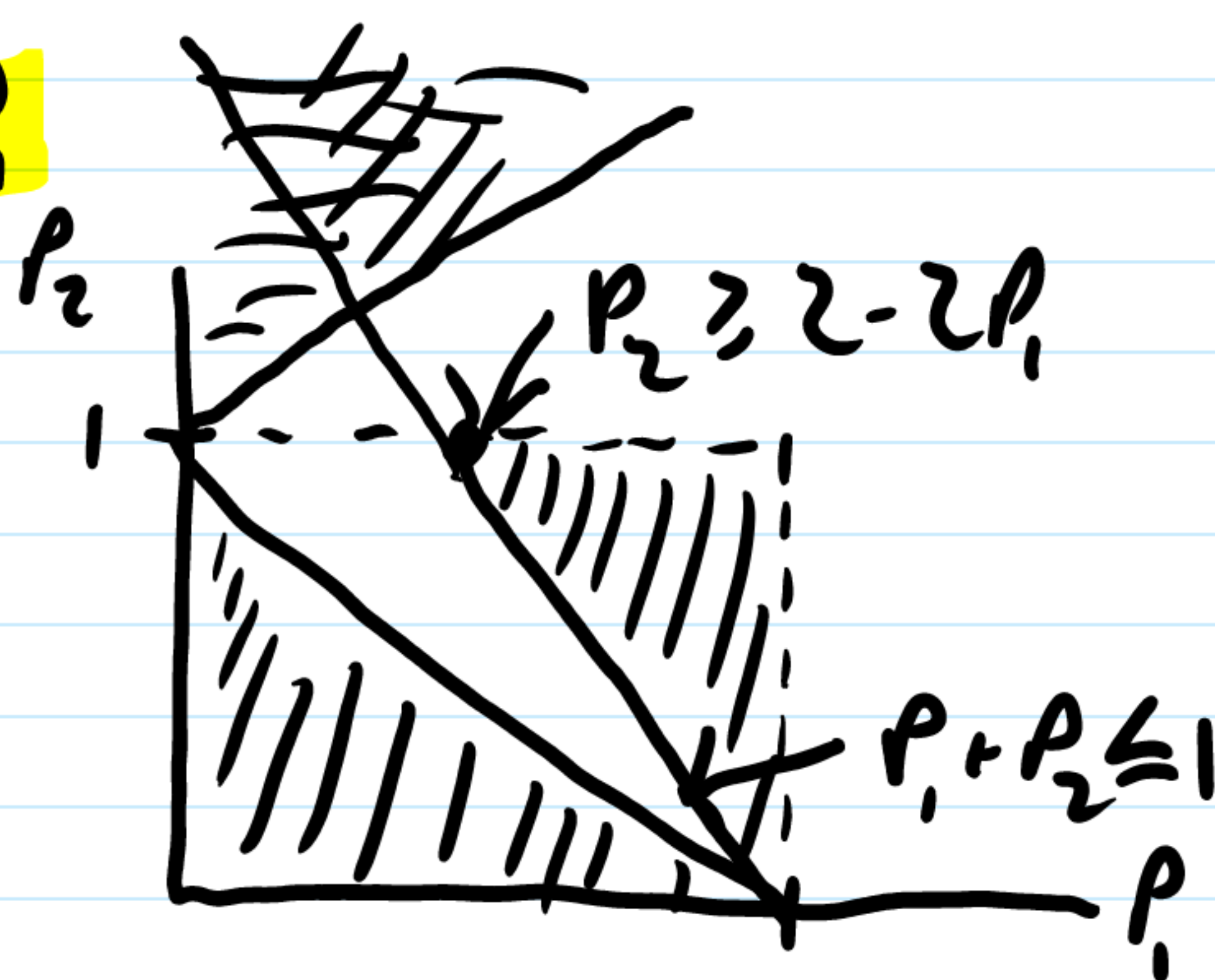
$$\hookrightarrow 1 + P_2 - 2 - 2P_1 + P_2 \geq 0$$

$$-1 - P_1 + P_2 \geq 0$$

$$P_2 \geq 1 + P_1$$

$$P_1 + P_2 \leq 1$$

Can't satisfy all 3!



R_3 is never best!