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Tutorials for Cyber-Physical Systems - Hybrid Models Exercise sheet 8

Exercise 1:

A 2-dimensional polyhedron P is defined by the following linear inequalities.

(-x			\leq	0
	x	+	2y	\leq	6
{	-x	_	y	\leq	-2
	x	_	y	\leq	3
		_	y	\leq	0

Please give the vertices of P.

Exercise 2:

Given a 2-dimensional rectangle R which is defined by the convex hull of the points (0,0), (0,1), (1,1), (1,0). Please give the vertices of R and P (given in Exercise 1), and the linear inequalities which define it.