Westfälische Wilhelms-Universität Münster

Übung $Modellierung\ und\ Analyse\ von\ Dynamischen\ Systemen,\ WiSe\ 17/18$

Betreuer: Carina Pilch

Autoren: Edenfeld, Lemke, Moser, Schinke

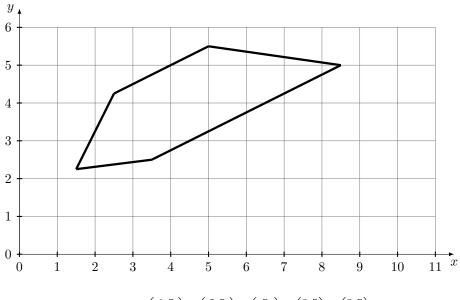
Blatt 6

Aufgabe 1

...

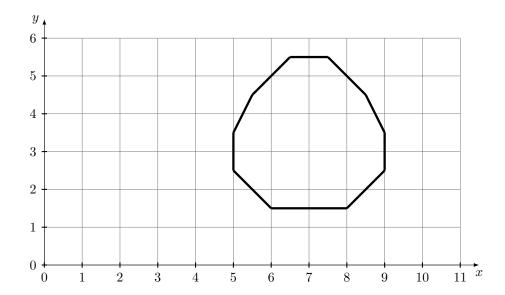
Aufgabe 2

Aufgabenteil a:



$$P'=\operatorname{cHull}(\left\{\begin{pmatrix}1.5\\2.25\end{pmatrix},\begin{pmatrix}2.5\\4.25\end{pmatrix},\begin{pmatrix}5\\5.5\end{pmatrix},\begin{pmatrix}8.5\\5\end{pmatrix},\begin{pmatrix}3.5\\2.5\end{pmatrix}\right\})$$

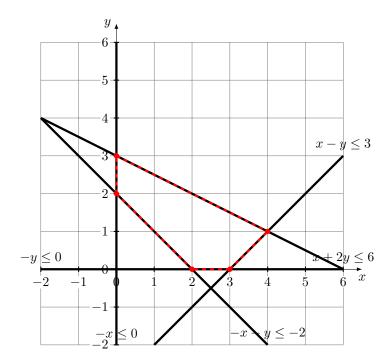
Aufgabenteil b:



$$P'=\operatorname{cHull}(\{\begin{pmatrix}6\\1.5\end{pmatrix},\begin{pmatrix}8\\1.5\end{pmatrix},\begin{pmatrix}9\\2.5\end{pmatrix},\begin{pmatrix}9\\3.5\end{pmatrix},\begin{pmatrix}8.5\\4.5\end{pmatrix},\begin{pmatrix}7.5\\5.5\end{pmatrix}\begin{pmatrix}6.5\\5.5\end{pmatrix},\begin{pmatrix}5.5\\4.5\end{pmatrix},\begin{pmatrix}5\\3.5\end{pmatrix},\begin{pmatrix}5\\2.5\end{pmatrix}\})$$

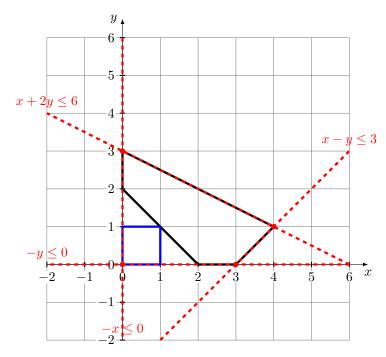
Aufgabe 3

Aufgabenteil a:



$$P'=\operatorname{cHull}(\{\begin{pmatrix}0\\3\end{pmatrix},\begin{pmatrix}0\\2\end{pmatrix},\begin{pmatrix}2\\0\end{pmatrix},\begin{pmatrix}3\\0\end{pmatrix},\begin{pmatrix}4\\1\end{pmatrix}\})$$

Aufgabenteil b:



$$P'=\operatorname{cHull}(\{\begin{pmatrix}0\\3\end{pmatrix},\begin{pmatrix}0\\2\end{pmatrix},\begin{pmatrix}2\\0\end{pmatrix},\begin{pmatrix}3\\0\end{pmatrix},\begin{pmatrix}4\\1\end{pmatrix}\})$$

$$-x \le 0$$

$$-y \le 0$$

$$x - y \le 3$$

$$x+2y \leq -2$$