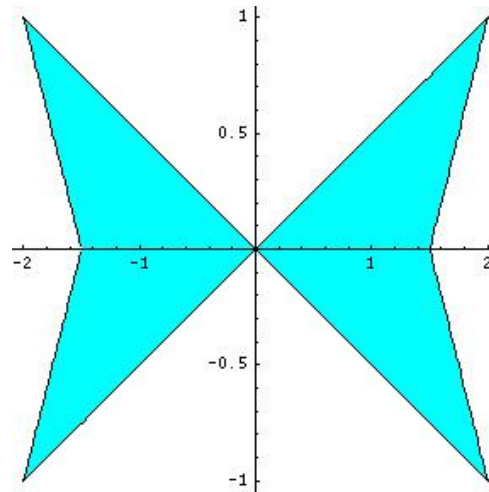


Solution of an interval linear system : what does it look like ?

$$\mathbf{A} = \begin{pmatrix} [2, 4] & [-1, 1] \\ [-1, 1] & [2, 4] \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} [-3, 3] \\ 0 \end{pmatrix}$$

and the solution set is defined by

$$\Sigma_{\exists, \exists}(\mathbf{A}, \mathbf{b}) = \{x \in \mathbb{R}^2 : 2|x_2| \leq |x_1|, 2|x_1| \leq 3 + |x_2|\}.$$



Solution of an interval linear system : what does it look like ?

$$\mathbf{A} = \begin{pmatrix} [2, 4] & [-1, 1] \\ [-1, 1] & [3, 6] \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} [-3, 3] \\ [1, 2] \end{pmatrix}$$

and the solution set is defined by

$$\Sigma_{\exists, \exists}(\mathbf{A}, \mathbf{b}) = \{x \in \mathbb{R}^2 : |3x_1 - 1| \leq |x_1| + |x_2| + 2, |4.5x_2 - 1.5| \leq |x_1| + 1.5|x_2| + 0.5\}$$

