

ORIGIN=0

$t := 0, 0.1..1$

$x_{11} := 5$ $x_{12} := 4$ $x_{13} := 4$ $x_{14} := 5$
 $y_{11} := 8$ $y_{12} := 7$ $y_{13} := 3$ $y_{14} := 2$

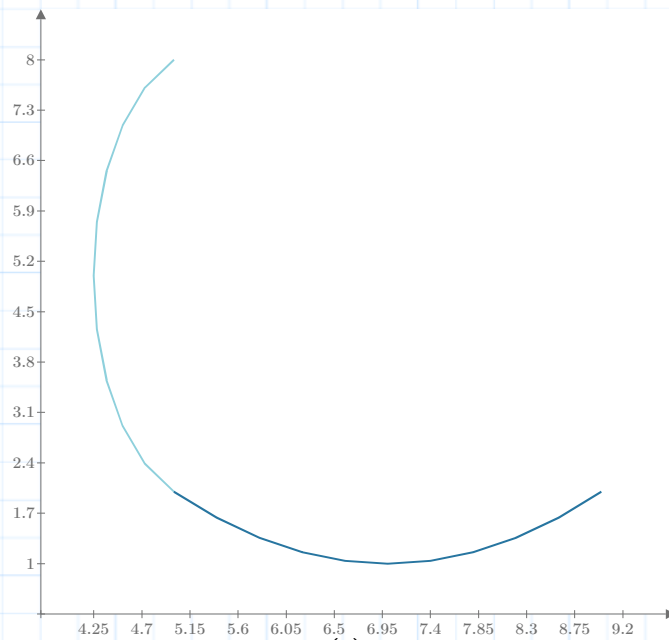
$x_1(t) := (1-t)^3 \cdot x_{11} + 3 \cdot t \cdot (1-t)^2 \cdot x_{12} + 3 \cdot t^2 \cdot (1-t) \cdot x_{13} + t^3 \cdot x_{14}$

$y_1(t) := (1-t)^3 \cdot y_{11} + 3 \cdot t \cdot (1-t)^2 \cdot y_{12} + 3 \cdot t^2 \cdot (1-t) \cdot y_{13} + t^3 \cdot y_{14}$

$x_{21} := x_{14}$ $x_{22} := 7$ $x_{23} := 9$
 $y_{21} := y_{14}$ $y_{22} := 0$ $y_{23} := 2$

$x_2(t) := (1-t)^2 \cdot x_{21} + 2 \cdot t \cdot (1-t) \cdot x_{22} + t^2 \cdot x_{23}$

$y_2(t) := (1-t)^2 \cdot y_{21} + 2 \cdot t \cdot (1-t) \cdot y_{22} + t^2 \cdot y_{23}$



$x_1(t)$

$x_2(t)$

$y_1(t)$

$y_2(t)$

$t = \begin{bmatrix} 0 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.6 \\ 0.7 \\ 0.8 \\ 0.9 \\ 1 \end{bmatrix}$

$x_1(t) = \begin{bmatrix} 5 \\ 4.73 \\ 4.52 \\ 4.37 \\ 4.28 \\ 4.25 \\ 4.28 \\ 4.37 \\ 4.52 \\ 4.73 \\ 5 \end{bmatrix}$

$x_2(t) = \begin{bmatrix} 5 \\ 5.4 \\ 5.8 \\ 6.2 \\ 6.6 \\ 7 \\ 7.4 \\ 7.8 \\ 8.2 \\ 8.6 \\ 9 \end{bmatrix}$

$y_1(t) = \begin{bmatrix} 8 \\ 7.616 \\ 7.088 \\ 6.452 \\ 5.744 \\ 5 \\ 4.256 \\ 3.548 \\ 2.912 \\ 2.384 \\ 2 \end{bmatrix}$

$y_2(t) = \begin{bmatrix} 2 \\ 1.64 \\ 1.36 \\ 1.16 \\ 1.04 \\ 1 \\ 1.04 \\ 1.16 \\ 1.36 \\ 1.64 \\ 2 \end{bmatrix}$

ORIGIN = 0

left := 0

right := 1

step := 0.1

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T := || s ← left
      || for i ∈ ORIGIN ..  $\frac{\text{right}}{\text{step}} + \text{ORIGIN}$ 
      ||   || S_i ← s
      ||   || s ← s + step
      || S
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$t = \begin{bmatrix} 0 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.6 \\ 0.7 \\ 0.8 \\ 0.9 \\ 1 \end{bmatrix}$	$T = \begin{bmatrix} 0 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.6 \\ 0.7 \\ 0.8 \\ 0.9 \\ 1 \end{bmatrix}$	$x_1(t) = \begin{bmatrix} 5 \\ 4.73 \\ 4.52 \\ 4.37 \\ 4.28 \\ 4.25 \\ 4.28 \\ 4.37 \\ 4.52 \\ 4.73 \\ 5 \end{bmatrix}$	$x_1(T) = \begin{bmatrix} 24.8 \\ 23.45 \\ 22.4 \\ 21.65 \\ 21.2 \\ 21.05 \\ 21.2 \\ 21.65 \\ 22.4 \\ 23.45 \\ 24.8 \end{bmatrix}$	$x_1(0.5) = 4.25$
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$x_2(T)^T = [28.1 \ 27.24 \ 26.66 \ 26.36 \ 26.34 \ 26.6 \ 27.14 \ 27.96 \ 29.06 \ 30.44 \ 32.1]$

$y_1(T)^T = [32.75 \ 30.584 \ 28.862 \ 27.548 \ 26.606 \ 26 \ 25.694 \ 25.652 \ 25.838 \ 26.216 \ 26.75]$

$y_2(T)^T = [2 \ 1.64 \ 1.36 \ 1.16 \ 1.04 \ 1 \ 1.04 \ 1.16 \ 1.36 \ 1.64 \ 2]$

$u(T) := \text{stack}(x_1(T), x_2(T))$

$z(T) := \text{stack}(y_1(T), y_2(T))$