

Aufgabe 1 A Kit

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b) Diesmal haben wir $f(x,y,z) = 0$ @ $y = \sin x + \sin y$ $e^x + \cosh y$ $6 \sin y$ $4y^3 + 3x^2 \cos y$ $3x^2$ 4 1 A: c) Und hier erhalten wir die (1;3)-Matrix $J f(x,y,z) = y + (xy)^2 + ez \sinh(x+y) + ez \sinh(x+y) + ez \cosh(xy)$ d) Wegen $x = e^{-\ln x}$ ergibt sich $D_1 f(x,y,z) = e^{-\ln x} = \frac{1}{x}$ $D_2 f(x,y,z) = e^{-\ln x} \ln x$. Folglich ist $J f(x,y,z) = \begin{pmatrix} \frac{1}{x} & 2xy & 1 \\ xy & 1 & x \\ \ln x & 0 & 1 \end{pmatrix}$ Aufgabe 3 a) Auf R^2 $f(0,0)$ ist f o enbar stetig; wir m ussen ...

Aufgabe 1 a) Die partiellen Ableitungen erster Ordnung ...
18.04.2019 PD Dr. Peer Kunstmann M.Sc. Michael Ullmann Numerische Methoden L osungsvorschlag zum 1. Übungsblatt Aufgabe 1 (Aufwandberechnung) Bestimmen Sie den jeweiligen notwendigen Rechenaufwand für das Invertieren einer regulären Matrix $A \in \mathbb{R}^{n \times n}$, der Berechnung von $x = A^{-1}b$ für eine reguläre Matrix $A \in \mathbb{R}^{n \times n}$ und einem Vektor $b \in \mathbb{R}^n$, sowie für die LR-Zerlegung für

Aufgabe 1 (Aufwandberechnung) - KIT
Hallo, soweit wie ich das verstehe, glaube ich dass dir ein kleiner Denkfehler unterlaufen ist. Die Minimierungstabelle zeigt die nicht-äquivalenten Zustände an, bedeutet wenn bei s_2 in jedem Kästchen ein x_0 steht, dann ist s_2 nicht-0-äquivalent zu den anderen Zuständen und damit einzeln in eine $\{ \}$ zu schreiben.. Gleiches gilt für s_1 und s_5 , bei denen überall maximal ein s_1 drin steht ...

Aufgabe 1 a) - KIT
d) Es gilt wegen $\dot{x}_0 = x_1$ $\dot{x}_1 = x_2$ $\dot{x}_2 = x_3$ $\dot{x}_3 = x_4$ $\dot{x}_4 = x_5$ $\dot{x}_5 = x_6$ $\dot{x}_6 = x_7$ $\dot{x}_7 = x_8$ $\dot{x}_8 = x_9$ $\dot{x}_9 = x_{10}$ $\dot{x}_{10} = x_{11}$ $\dot{x}_{11} = x_{12}$ $\dot{x}_{12} = x_{13}$ $\dot{x}_{13} = x_{14}$ $\dot{x}_{14} = x_{15}$ $\dot{x}_{15} = x_{16}$ $\dot{x}_{16} = x_{17}$ $\dot{x}_{17} = x_{18}$ $\dot{x}_{18} = x_{19}$ $\dot{x}_{19} = x_{20}$ $\dot{x}_{20} = x_{21}$ $\dot{x}_{21} = x_{22}$ $\dot{x}_{22} = x_{23}$ $\dot{x}_{23} = x_{24}$ $\dot{x}_{24} = x_{25}$ $\dot{x}_{25} = x_{26}$ $\dot{x}_{26} = x_{27}$ $\dot{x}_{27} = x_{28}$ $\dot{x}_{28} = x_{29}$ $\dot{x}_{29} = x_{30}$ $\dot{x}_{30} = x_{31}$ $\dot{x}_{31} = x_{32}$ $\dot{x}_{32} = x_{33}$ $\dot{x}_{33} = x_{34}$ $\dot{x}_{34} = x_{35}$ $\dot{x}_{35} = x_{36}$ $\dot{x}_{36} = x_{37}$ $\dot{x}_{37} = x_{38}$ $\dot{x}_{38} = x_{39}$ $\dot{x}_{39} = x_{40}$ $\dot{x}_{40} = x_{41}$ $\dot{x}_{41} = x_{42}$ $\dot{x}_{42} = x_{43}$ 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