MVE035/600 Exercise session 7.1.

Wednesday, 3 March 2021 07:44

PAUS +, 11 08:58! $\frac{10.35}{10.35}: h(x_{19,2}) = (x-3y+z^{2}, \lambda x-y^{2}+z, x^{2}+y^{2}-2z^{2})$ Berchna a) div $u = \frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = tr(Ju)$ = 1 - 2y - 4z $= \begin{pmatrix} 2y - 1 \\ 2z - 2z \\ 2z - zz \end{pmatrix} = \begin{pmatrix} 2y - 1 \\ 2(z - z) \end{pmatrix}$ c) grad n'= ??? TRICK QUESTION (((inte veldetimerad) d) grad div n = grad (1-2y-42) $=\begin{pmatrix} 0\\-2\\ \end{pmatrix} = -2\begin{pmatrix} 0\\ 2\end{pmatrix}$ e) rot rot $n = \begin{pmatrix} 0 - 2 \\ 0 - 0 \\ -1 - 2 \end{pmatrix} = \begin{pmatrix} -2 \\ 0 \\ -4 \end{pmatrix} = -2 \begin{pmatrix} 2 \\ 0 \\ 2 \end{pmatrix}$ 10.54: M.L.a. Stokes sats, berikun $\int_{-1}^{1} (3x + 2\cos(y^2)) dy + (y - 2x + y\cos(y^2)) dz$ der J = DK, K C {(x, y, 2): 2x+y+22=5} kompet used Arca(K) = 3. Losn. F(2, y, 2) := (0, 3x+2cos(y2), y-2x+ycos(y2)).

$$\frac{5 + s \log n}{2k} : \int \langle t_{1}, dr \rangle = \int \rangle \langle ret \pm_{j}, N_{k} \rangle dA$$

$$\frac{2 \log A \ln r}{2k} : N_{k} = \left(\frac{2}{2} \right) \qquad \left[\langle \frac{2}{3} \rangle \right] \qquad \left[\langle \frac{2}{3} \rangle \right] = 5$$

$$= \frac{1}{3} \left(\frac{2}{3} \right) \qquad \left[\int \frac{2}{3} \frac{2}{3} - \frac{2}{3} \frac{2}{3} \frac{2}{3} \right] = \left(\begin{array}{c} 1 + \cos(\gamma t) - \sqrt{2} \ln(\eta t) - (\cos(\gamma t)) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) \\ - \sqrt{2} t \ln(\eta t) \right] \\ = \left(\begin{array}{c} \frac{2}{3} \frac{2}{3} - \frac{2}{3} \frac{2}{3} \frac{2}{3} \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) \\ - \sqrt{2} t \ln(\eta t) \right] \\ = \left(\begin{array}{c} 1 + \cos(\gamma t) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - \sqrt{2} t \ln(\eta t) - (\cos(\gamma t)) - \sqrt{2} t \ln(\eta t) - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) \\ - \sqrt{2} t \ln(\eta t) - \sqrt{2} t \ln(\eta t)$$

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