

Author: J.O. Hooghoudt ; email:janotto@math.aau.dk ; date=06/11/13

Solution to exercise Kreyszig 10.4.9

There is no solution. The exercise is not well defined as $F = [e^{y/x}, e^y + \ln(x) + 2x]$

$R : 1 + x^4 \leq y \leq 2$. This implies $-1 \leq x \leq 1$. The vector function F is however ill defined for this domain of x as: $e^{y/x}$ is not defined for $x = 0$ as well as $\ln(x)$ is not defined for $x \leq 0$.