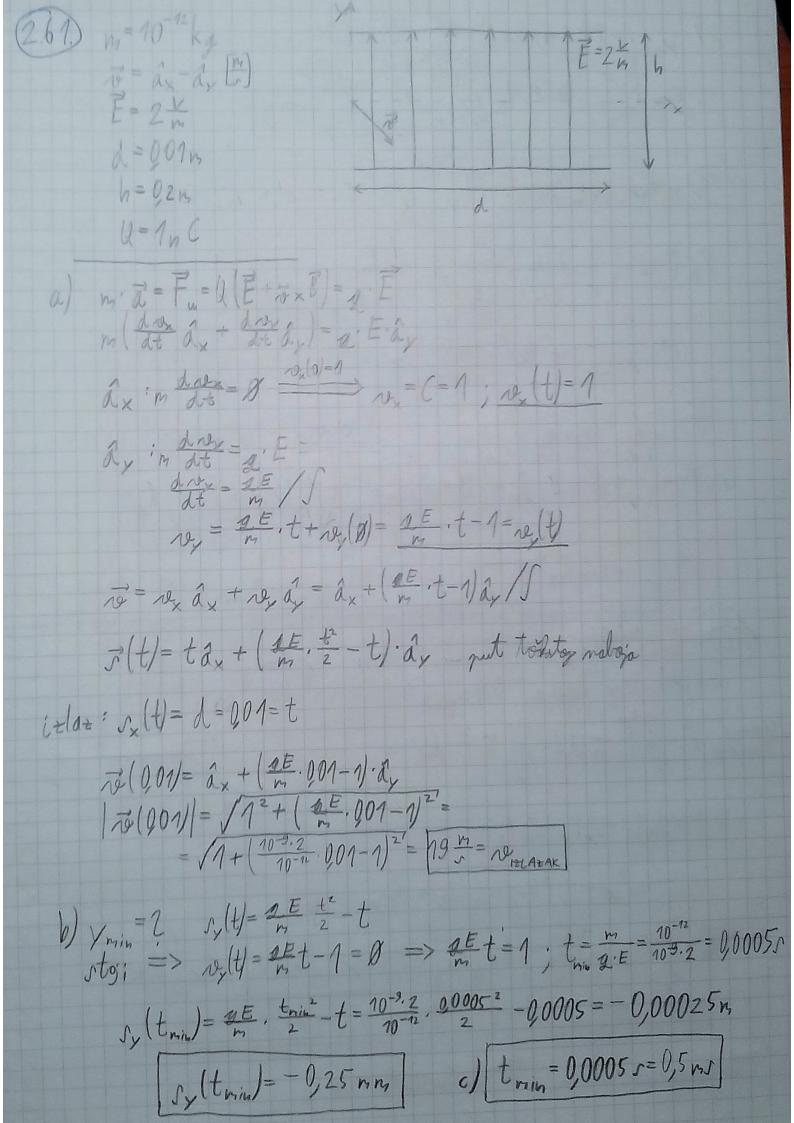
cilindrichi : T(r, d, z) sferni: T(r, 0, d) v= /x+,2 = /2+1= 15=2,2360 d=tg=x=tg=2=26,56°=26,56°=26,56°=26,4636 rad sferni (r, 0, 4) r= /x2+2+2= /22+1+32=3,742 0= 0,64 rad

1. Auditorse (1.12) Vektori paralely $\vec{R}=2\hat{a}_{+}+2\pi\hat{a}_{+}+4\hat{a}_{z}$ $\vec{B}=2\hat{a}_{+}+\beta\hat{a}_{4}-2\hat{a}_{z}$ paralelni? must $[A \times B = 0] = [a_n \ a_n \ a_n \ a_n] = (-4\pi - 4\beta) \cdot a_n - a_n(-4 - 42)$ $2 \ 2\pi \ 4 = (-4\pi - 4\beta) \cdot a_n - a_n(-4 - 42)$ $2 \ 3 - 2 = [-4\pi - 4\beta] \cdot a_n - a_n(-4 - 42)$ Q: -4π-45=Ø => [3=-π]; â; -4-4d=Ø => [d=-1] â; 2B-2TL (1.8.) Vektori okomiti most: A.B=8 A=2ax+2ax+2ax A.8=22+2-2=8 B = Lax + 2ax + 12 22+6=8 2=-37 2 skolar 1.14) gradijent: f=x.t-y.t T(2,1,1) grad f=?= 7. f= = 2x 2x + 2 2x + 2 2) (x = - x 2)= = = 2 dx - Zdy + (x-y) dz= = 1 ax - 1 dy + 1 d= 79



ponavlage rustavi integrali I=Standady=Staffxydy+Jdx Stlxyddy polarne koordinate: x=rist I= If(xy)dxdy= If(real, romb) ridral J= | Jx = xx = rsint = rsint = resit = resit = r I=JdlJf(regl, rsinl)rdr

tvortruki sferni + cilindrični 111(x+++++)axyydz V kusla x2+x2+===/-z x2+x+2-240 x+y+=2-2·2·2+(2)2-(2)=0 x2+y2+(2-2)264 ciliadricui: x= rust y=rsinf J=r= 3x 3x 3x 3x 10 - roll 0 =r 学者是001 sterni: dV=dxdydz=rsintdrdfd0 x=r sint rat y=r sind sint z=rud J=r sin A J=r sint

2\tau \frac{\pi}{2}

\[
\begin{align*}
& \frac{\pi}{2} & \frac{\pi}{

