Date 11. 6.2019 Liveilnear Laplacion, divergence, Curl From Math notehoole [4/10/2017]: Geometry (differential) di= Ji, dy'= | di | eridy = hyeridy Df = ty, ff. exi -: 0 \(= \frac{e_{\frac{1}{2}}}{h_{\frac{1}{2}}} $D \times D_i^* = 0 = 0 \times \frac{C_i}{h_i}$ ezi X ezi = ezi () # j# j# |c : D-[ezu/ (hyihzi)] = 0. (ex: xexi) = D. (05'x 05') = D > - (D x D f ') -DY'. (OXDY) -- D-V = D. [ex' (hychs) V)+ exc (hychs) V) + (43 (hsihs V3)) = \frac{e_{31}}{h_3 h_3 } - \D(\h_3 h_4 \, \nu') + \frac{e_{32}}{h_3 h_4 3} - \D(\h_4 h_4 \, \nu') + Pri - D(h, h, - V3)

Date 11. 4. 2019 Curilinear Layloion cupil, divergence -- ex. - O(hychsi V') = hy. fs. (hychsi V'), etc... -: 0.V = 15. hs. hs. l Js. (hs. hy. V') + Js. (hs. hs. V') + fs. (hs. hs. V') 1. D'V = hy.hy.hy. [Js: (hy.hy) + Js. (hy.hy) + Js: (hy.h) + Js: (hy.h)) She Dx Esi = 0 DX V = DX [ey hg. V' + ey hg. V' + eg hg. V' } = - ex x D(h, v') &- ex x D(h, v') + ex x D(h, v') + (1) x x D(h, v') == Dx(\$W)= \$(Ox R) - WX0\$ - (x) (h, v') = (x' x (ex dv' + (x dv' + (y) dv' + (y) dv') $=\frac{e_{5}}{h_{5}\cdot h_{5}}\cdot \frac{\partial V}{\partial s}\cdot -\frac{e_{5}}{h_{5}\cdot h_{5}}\cdot \frac{\partial V}{\partial s^{3}}$: Dxv = - hy. hy. hy Per. hy, Jr. - ex. hy. Jr, - ex. hy. Jr. terhy Jr, terhy Jr, -erhy Jr