Detes apply Gauss's Theorem. We need to close the surface, so we add the unit disk at x=1, Si, oriented in positive x-direction: N= [1,0,0] on Si. · Planers mot types con put there represely.

Sh. (\frac{1}{2}) = \frac{1}{2} Sho((F) + curl (curlF)) od 5. Dorak into two parts oriented outward. Today! An example bringing together Gauss's and stokes Theorems and then an integral summany! A = [(2) 201) 12 x (25+2+2) = + 12 x (25+2+2) and (2+2) and (2+2) and (2+2) = + 12 x (2+2+2) = + 12 - amazingly, it is possible to communicate much while revealing little. - studies privacy and its relationship to communication costs accuracy & optimality. - math major at Harvard, PLD at Torato, postdoe in Paris Mathematician spotlight: Lila Fontes, Assistant Professor of Computer Science, Swarthmore £.7 6 (1) OH# 5507 8102 14 how DIAMA DAVIG

491= K.9x. 91.90 A (((-12) = 0=) ((-1-1) + (4) = ((1-12) + (1-12)

Ituo sanus putt es ? ? = (B) [[(y2-22) d5 = [y2d5 - [22d5 come out the same due to the symmetry of the shape.

(1x12-1x102) [1x] L1, Cot 2x, -51717 we have the dot product with component of the first co By stokes Theorem, If curl (curl #) . d = fcurl # . d S , if as is oriented correctly?

So needs to be clockwise.

Thank you for a great semester! Please let me know about your future endeavors!