1. Evaluate the surface integral for the given vector field F and oriented surface S.
F(x,y,z)=<xy,yz,zx>
And S is the part of the paraboloid z=x^2-y^2 that lies above the square 0=<x=<1, 0=<y=<1
And has upward orientation.

Convert F(x,y,z) into cylindrical coordinates
Find r_theta and r_r
Take the cross product of r_theta and r_r
And then take the absolute value
That will give u the value of dS
Convert to iterated integral and then solve
I understand the process of doing this problem int theory
But have trouble understanding how to actually do it.