Math 3298 Worksheet 40: Divergence theorem

Group members (2 to 4):

- (1) Calculate the flux of $\vec{F}=(xy,yz,zx)$ out of the closed cylinder $x^2+y^2\leq 1,$ $z\geq 0,$ $z\leq 1$: (a) Directly

(b) ... by using the divergence theorem.