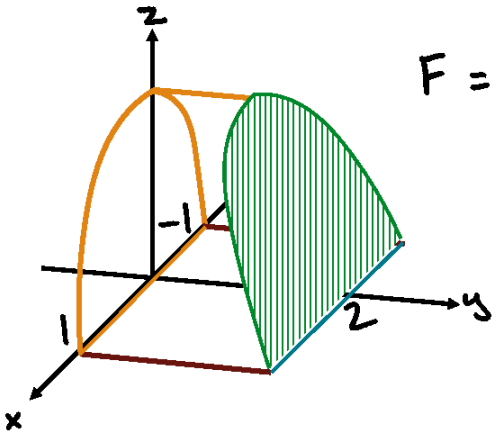
Divergence Theorem - Example



$$F = \left(\frac{1}{2}x^2 + e^{\cos z y}\right)i + \left(yx + \ln|z|\right)j + \tan(xy)k$$

$$\iint_S \vec{F}\, ds =$$