Sind 
$$\int S x \, ds$$
 over the port of the part of the part bolic cylinder  $2 = x^2$  that we sinstee the first octant  $2 = x^2$  that we cylinder  $x^2 + y^2 = 1$ 

convert to cylindrical yi take  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, of  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, of  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, of  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, of  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, of  $0 \le \frac{2\pi}{2}$  Sence we work in the serst octant, or  $0 \le \frac{2\pi}{2}$  Sence  $0 \le$