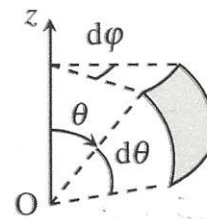
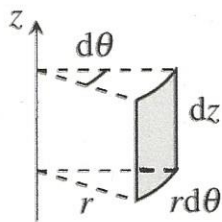
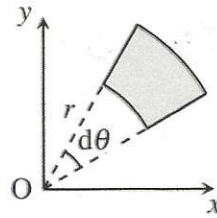
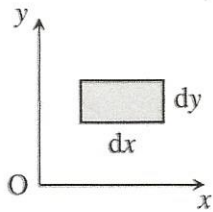
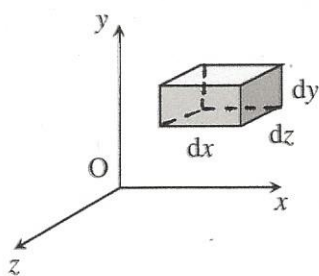


1) Calculs d'intégrales multiples

a) Élément de surface

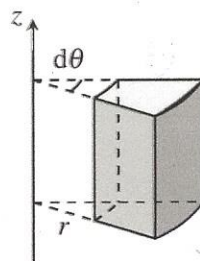


b) Élément de volume



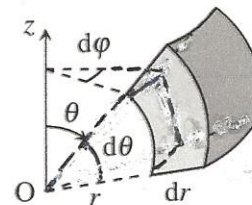
élément de volume
cartésien

$$dV = dx dy dz$$



élément de volume
cylindrique

$$dV = r dr d\theta dz$$



élément de volume
sphérique

$$dV = r^2 \sin \theta dr d\theta d\phi$$