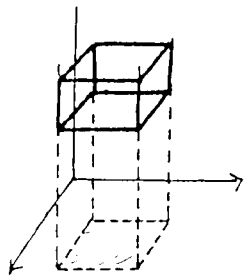
Rectangular (x, y, z)

$\Delta V = \Delta x \cdot \Delta y \cdot \Delta z$



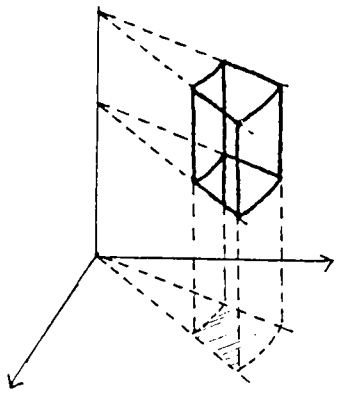
Cylindrical (r, θ, z)

$\Delta V = r\Delta\theta \cdot \Delta r \cdot \Delta z$

$x = r\cos\theta$

$y = r\sin\theta$

$x^2 + y^2 = r^2$



Spherical (ρ, θ, ϕ)

$\Delta v = \Delta\rho \cdot \rho\Delta\phi \cdot \rho\sin\phi\Delta\theta$

$x = \rho\sin\phi\cos\theta$

$y = \rho\sin\phi\sin\theta$

$z = \rho\cos\phi$

$x^2 + y^2 + z^2 = \rho^2$