Cartesian Coordinates

z

$P(x_o, y_o, z_o)$

Top side

Right side

Front side

P

dz

dx

dy

y

x
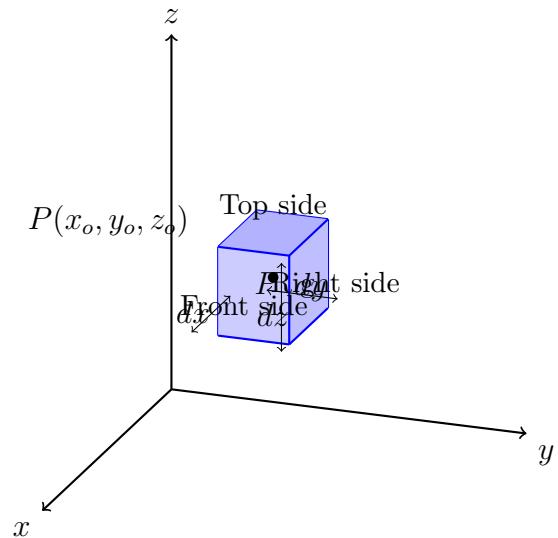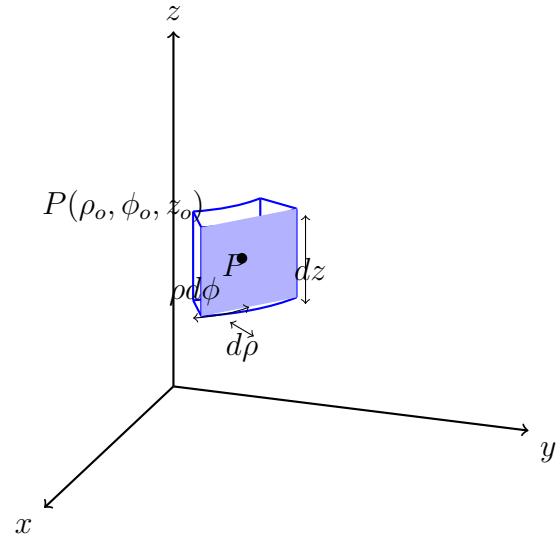
Cylindrical Coordinates (ρ, ϕ, z)

Spherical Coordinates (r, θ, ϕ)