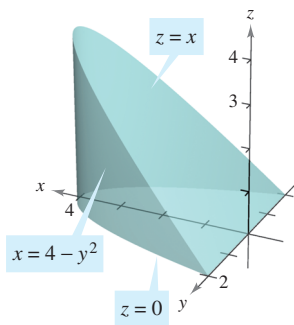
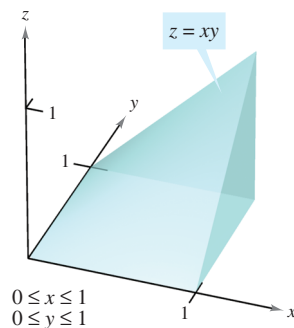


Problem 1: For each part below, set up the integral $\int_W f(x, y, z) \, dV$ where W is the region of xyz -space shown.

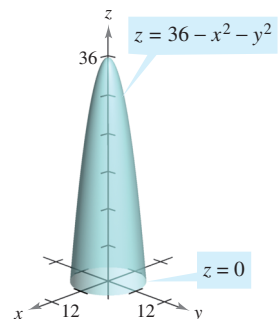
(a)



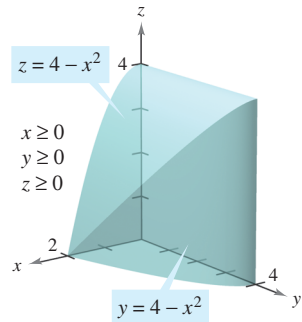
(b)



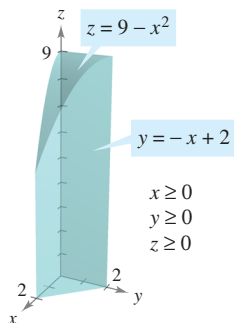
(c)



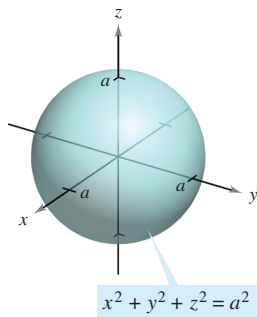
(d)



(e)



(f)



Problem 2: For each part below, sketch the region of integration.

$$(a) \int_0^1 \int_{-1}^1 \int_0^{\sqrt{1-x^2}} f(x, y, z) \, dz \, dx \, dy$$

$$(b) \int_{-1}^1 \int_0^1 \int_{-\sqrt{1-z^2}}^{\sqrt{1-z^2}} f(x, y, z) \, dy \, dz \, dx$$

$$(c) \int_0^1 \int_{-\sqrt{1-z^2}}^{\sqrt{1-z^2}} \int_0^{\sqrt{1-x^2-z^2}} f(x, y, z) \, dy \, dx \, dz$$