

P IX. 6. A.

Calcular:

$$1) \int_0^1 \int_0^{1-x} \int_0^{1-x-y} z \, dz \, dy \, dx.$$

$$2) \int_0^1 \int_0^{1-x} \int_0^{2-x} xyz \, dz \, dy \, dx.$$

$$3) \int_0^1 \int_{x/2}^{1-x/2} \int_0^{2-x-2y} dz \, dy \, dx.$$

$$4) \int_0^3 \int_0^{-\frac{2}{3}x+2} \int_0^{6-2x-3y} 2x \, dz \, dy \, dx.$$

$$5) \int_0^1 \int_{x^2}^x \int_0^{xy} dz \, dy \, dx.$$