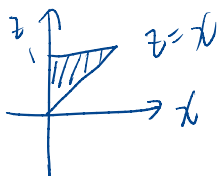
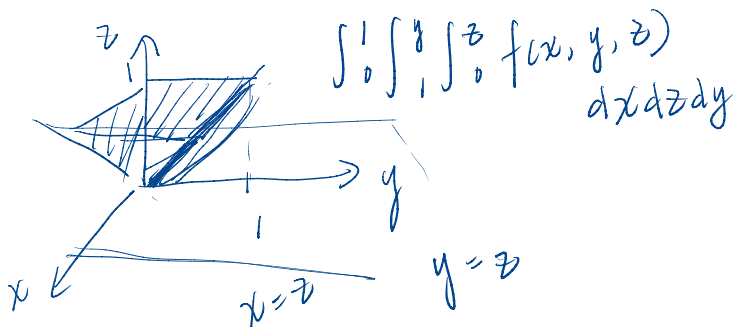


# Calculus

112550015 資工-劉家琪

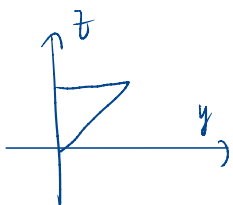
Sec 15.6

40.  $0 \leq x \leq z, y \leq z \leq 1, 0 \leq y \leq 1$



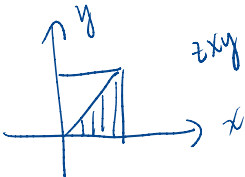
$$\int_0^1 \int_0^z \int_0^z y x z$$

$$\int_0^1 \int_x^1 \int_0^z y z x$$



$$\int_0^1 \int_0^z \int_0^z x y z$$

$$\int_0^1 \int_0^y \int_0^z x z y$$



$$\int_0^1 \int_0^y \int_0^1 x y z$$

$$\int_0^1 \int_0^x \int_0^1 y z y z$$

$$\Rightarrow \left\{ \begin{array}{l} \int_0^1 \int_0^z \int_0^z f(x, y, z) dy dx dz \\ \int_0^1 \int_x^1 \int_0^z f(x, y, z) dy dz dx \\ \int_0^1 \int_0^z \int_0^z f(x, y, z) dx dy dz \\ \int_0^1 \int_0^y \int_0^z f(x, y, z) dx dz dy \\ \int_0^1 \int_0^y \int_0^1 f(x, y, z) dz dx dy \\ \int_0^1 \int_0^x \int_0^1 f(x, y, z) dz dy dx \end{array} \right.$$

\*