$dx\,dz\,dy$ $\quad E = \{(x,y,z) \mid y \in [0,1] \wedge z \in [0,y] \wedge x \in [y,1]\}$

(c) $\int_0^1 \int_0^y \int_y^1 f(x,y,z)\,dx\,dz\,dy$

Type 3

$dy\,dz\,dx$ $\quad E = \{(x,y,z) \mid x \in [0,1] \wedge z \in [0,x] \wedge y \in [z,x]\}$

(d) $\int_0^1 \int_0^x \int_z^x f(x,y,z)\,dy\,dz\,dx$

$dy\,dx\,dz$ $\quad E = \{(x,y,z) \mid z \in [0,1] \wedge x \in [z,1] \wedge y [z,x]\}$

(e) $\int_0^1 \int_z^1 \int_z^x f(x,y,z)\,dy\,dx\,dz$

$a = b = c = d = e$

$= \int_0^1 \int_y^1 \int_0^y f(x,y,z)\,dz\,dx\,dy$