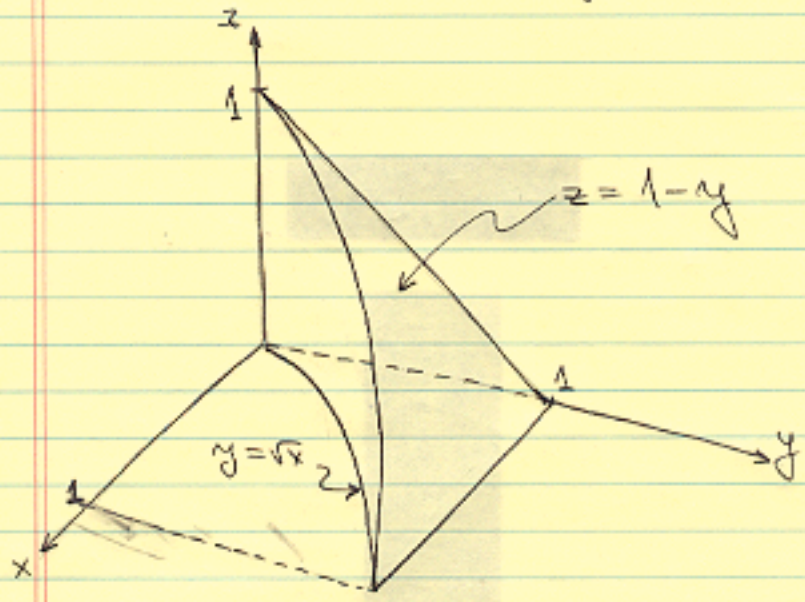


MATH 2443 - Solution of Problem 16.6/33



1) Writing it in the form

$$I_1 = \iiint f(x,y,z) dz dy dx = \int dx \int dy \int dz f(\dots)$$

I will use the second form of writing the integral. Clearly, the "outside" integration goes for x from 0 to 1, so

$$I_1 = \int_0^1 dx \int dy \int dz f(\dots)$$

For a fixed value of $x \in [0, 1]$, the cross-section of the body in the