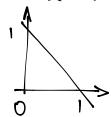
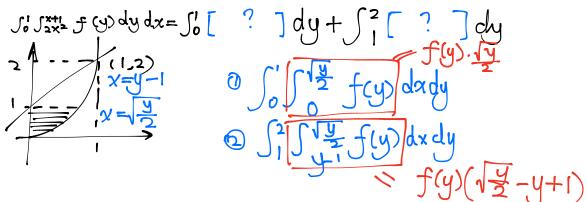
July 18th

Find the volume of region above the \triangle in xy-plane with vertices (0,0),(1,0), (0,1) and below $Z=6\times y(1-x-y)$



Joseph Jo



give $g: \mathbb{R} \longrightarrow \mathbb{R}$ is continuous $h(x) = \int_0^x \int_0^y g(t) dt dy$ prove $h(x) = \int_0^x (x-t)g(t) dt$

integration by parts

Proof: h(20 = 5x x9(+)dt - 5x +9(+)dt = x5x 9(+)dt - (+) 5 9(+) 6 - 5x 5 9(+)dt dy)

y=t