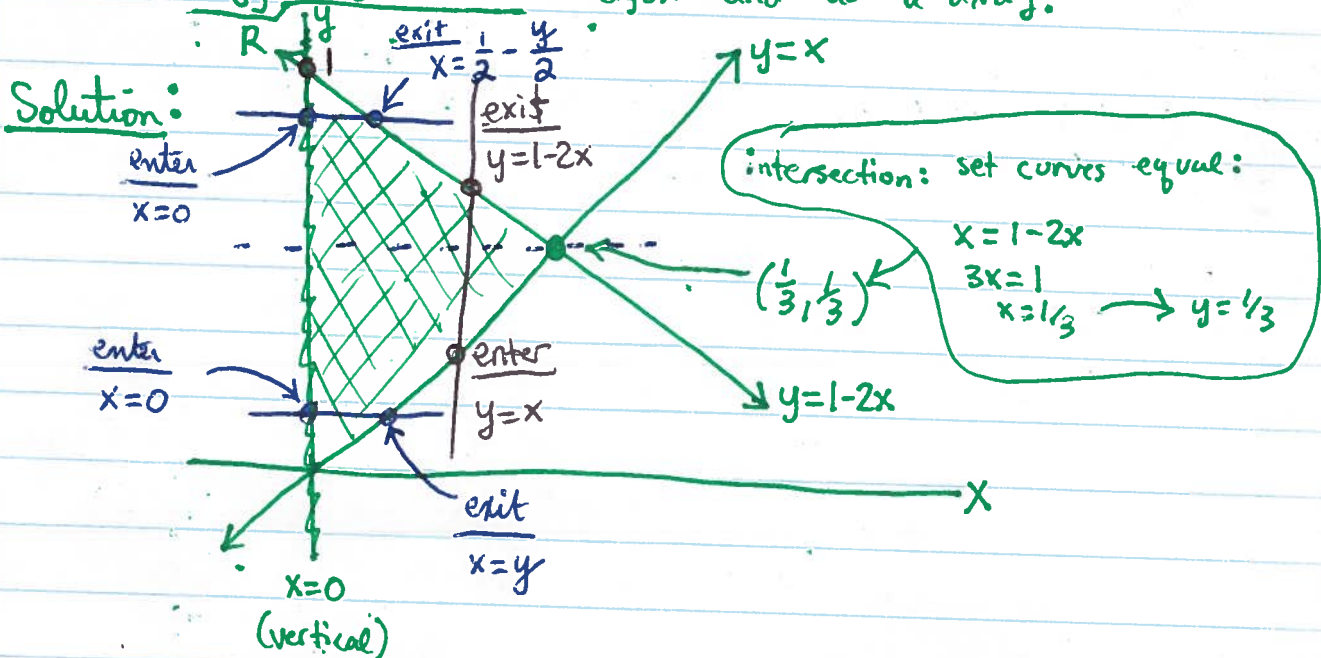


Quiz 6 MATH 3503 Fall 2018

Draw region R bounded by curves $y=x$, $y=1-2x$, and $x=0$.

Set up $\iint_R f(x,y) dA$ as a $dydx$ and as a $dx dy$.



As $dydx$

$$\iint_R f(x,y) dA = \int_0^{1/3} \int_x^{1-2x} f(x,y) dy dx$$

As $dx dy$

$$\iint_R f(x,y) dA = \int_{1/3}^1 \int_0^{1/2 - y/2} f(x,y) dx dy + \int_0^{1/3} \int_0^y f(x,y) dx dy$$