

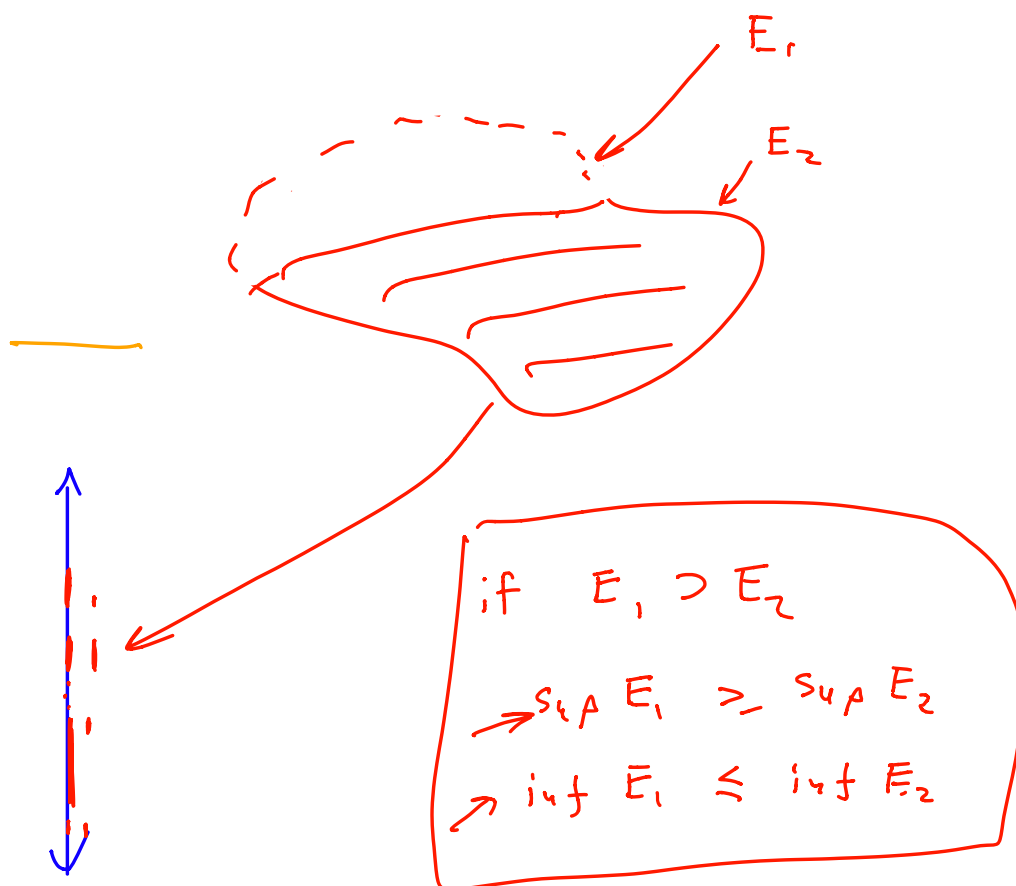
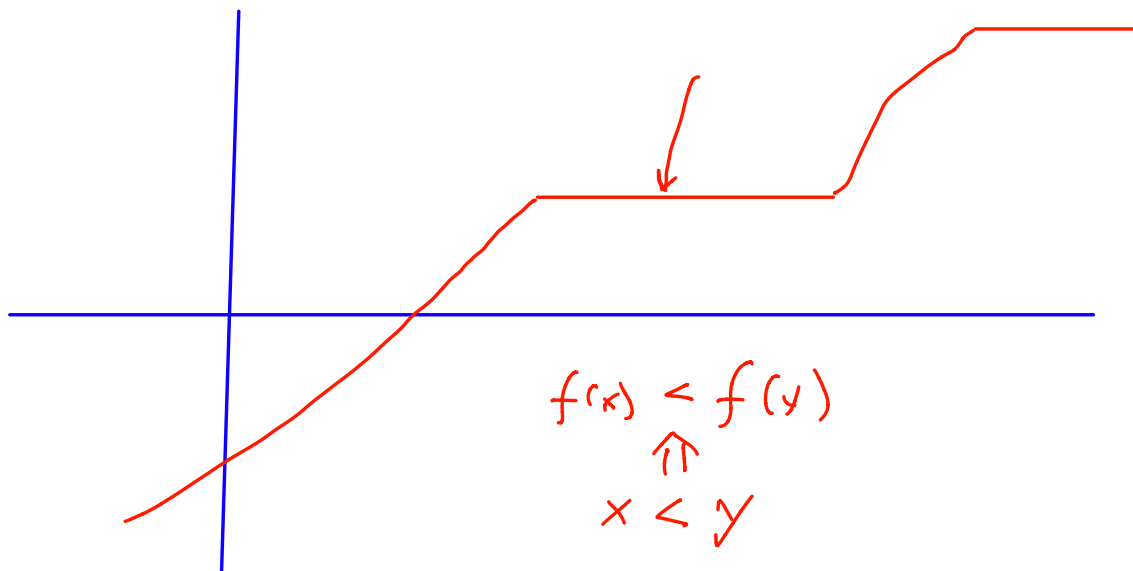
$$D_\alpha \equiv \{x \geq \alpha\}$$

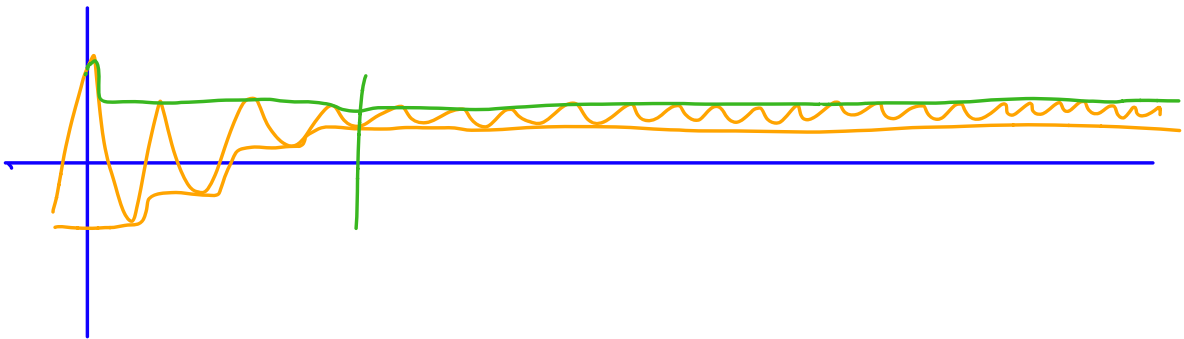
sup  $f(x)$  drawn in green

$D_\alpha$

inf  $f(x)$  drawn in yellow

$D_\alpha$





Next time : prove there is always  
a limit (perhaps infinite) when  
things are monotonic.