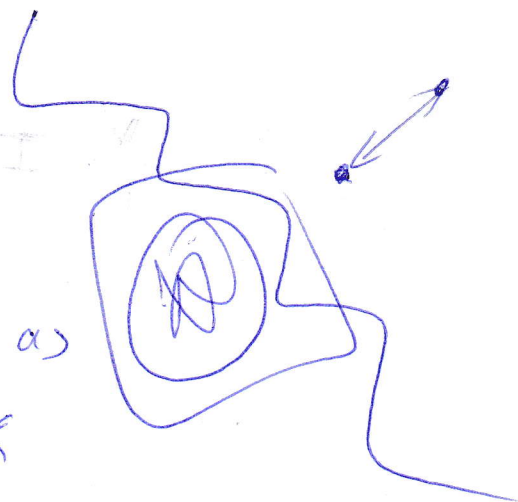


given a density set D , D^c is increasing. 1

as if $x \in D^c$, $x' \geq x$

\Rightarrow if $x' \in D \Rightarrow x \in D$ as
 D density. *



so $x' \notin D \Rightarrow x' \in D^c$.

$P(x \in D | X_i = x) = 1 - P(x \in D^c | X_i = x)$ so is
 decreasing in x

||

~~||~~

$p = 1 - F(x)$ $F \uparrow \Rightarrow p \downarrow$

$P(p \in 1 - F(D) | P_i = p)$

\rightarrow decreasing in x

\Rightarrow increasing in p !

So