Claum: X PRDS  $\iff$  P (set PE=1-Fi(XE)))

for inenuing Fill
shutty. Part: Ginen an inviving set D. P(XED | X=X) = P(PE1-F(D) | P=P) Neve i-F(0)=3 (-F,(d))
1-Fm(lm) - (d,-,dm) - (d,-,dm) - (-F,(x)) F stritly increasing so year RFALO ) of Aurity in p.

1-F(D) is diving =) (x) is durity in p.

Smitally rice versa - (using A M) Ar

F (1-A)

May a line of the proof of the p Linna XPRDS COM & Ge XPROS & H deering sets . P(XED|Xi=X) is devising in X Prof: Detiring (>) D'incrusing. se De prof-