

④ By F is cts,

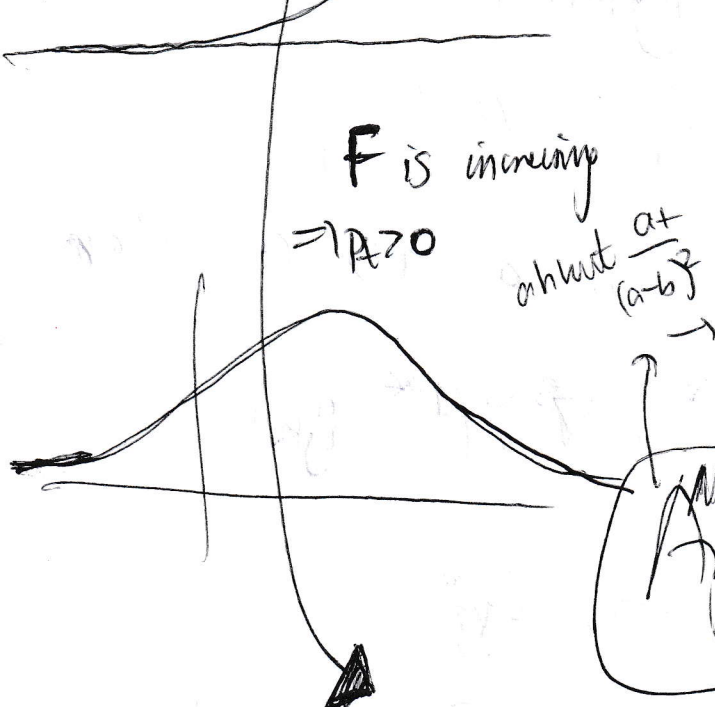
so by Theorem 2 of Tsirel'son,

For $a > b_t$, $f_t = F_t'(a)$ is bounded by a^n of b_t

So enough to show that $\sup_t b_t$ is bounded.

Note have $f_t \rightarrow 0$ as $x \rightarrow \infty$

(another option is to take $b \rightarrow \infty$ in Thm 2?)



F is increasing
 $\Rightarrow f_t > 0$

about $\frac{a^n}{(a-b)^2} \rightarrow 0$ as $a \rightarrow \infty$

high $a +$ term might fuck us!

To show this, note that

$1 - F_t(u)$ is bounded

to

The bounds depend on f^n 's of $\text{Var}(\nabla^3 f_t, \nabla^2 f_t, \nabla f_t)$ which is cts on a compact set so bounded in s, t .
i.e. \exists upper bound.

Need to look into material of the literature on this!

may need to go into the proof to check this one!

$F(a) > 1/2$
 $\Rightarrow u > b_t$!
so b_t is upper bounded

need to think about $a \leq b_t$ right!

So at some u , all $F_t(u) < \varepsilon$.
 $\Rightarrow b_t > u$,

use this to show
that $1 - F_t(u) \rightarrow 0$ as $t \rightarrow \infty$

e.g. using Euler characteristic

or using inequalities in Adler chapter 4.