

Send $b \leftarrow t \rightarrow -\infty$

$$b = \Phi^{-1}(\Phi(t)) \quad b \rightarrow -\infty!$$

$$t_- = -t!$$

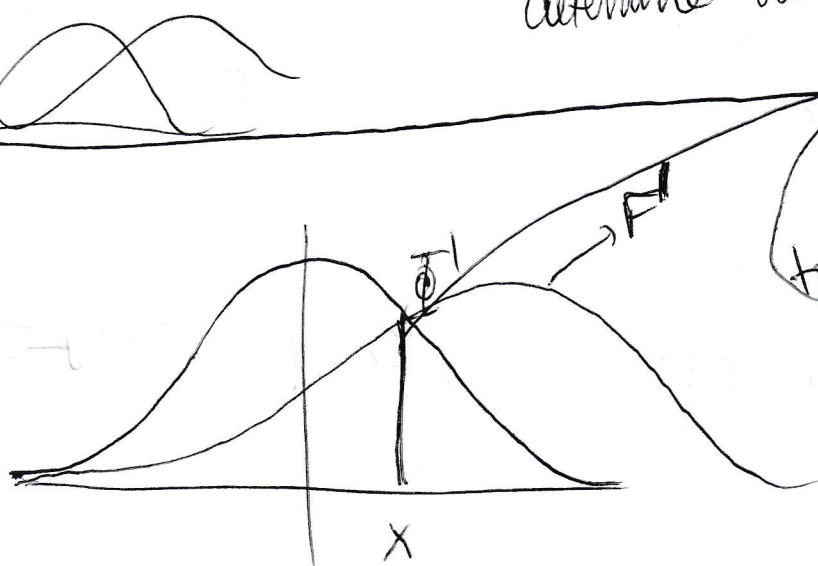
$$F'(a) \leq \frac{(2-t)^2 a + (2-t)}{(a-b)^2} + \frac{(2-t)}{a-b}$$

need expressions for the tail of F to lower.

why not:

determine what happens here!

As the sup always has a positive skew



just need to ensure that alone x there is a bound on F'

1/2 always!

ie extra part x s.t $\forall y < x$

$$F'(y) < \Phi'(y)$$

as can scale so that marginally all distribution

of $\nabla^3 Y(s) / \nabla^3 Y(t), \nabla^2 Y(t)$ are $N(0,1)$!

as the sup of Gaussians puts less weight on lower tails.

This combined with previous results may mark.