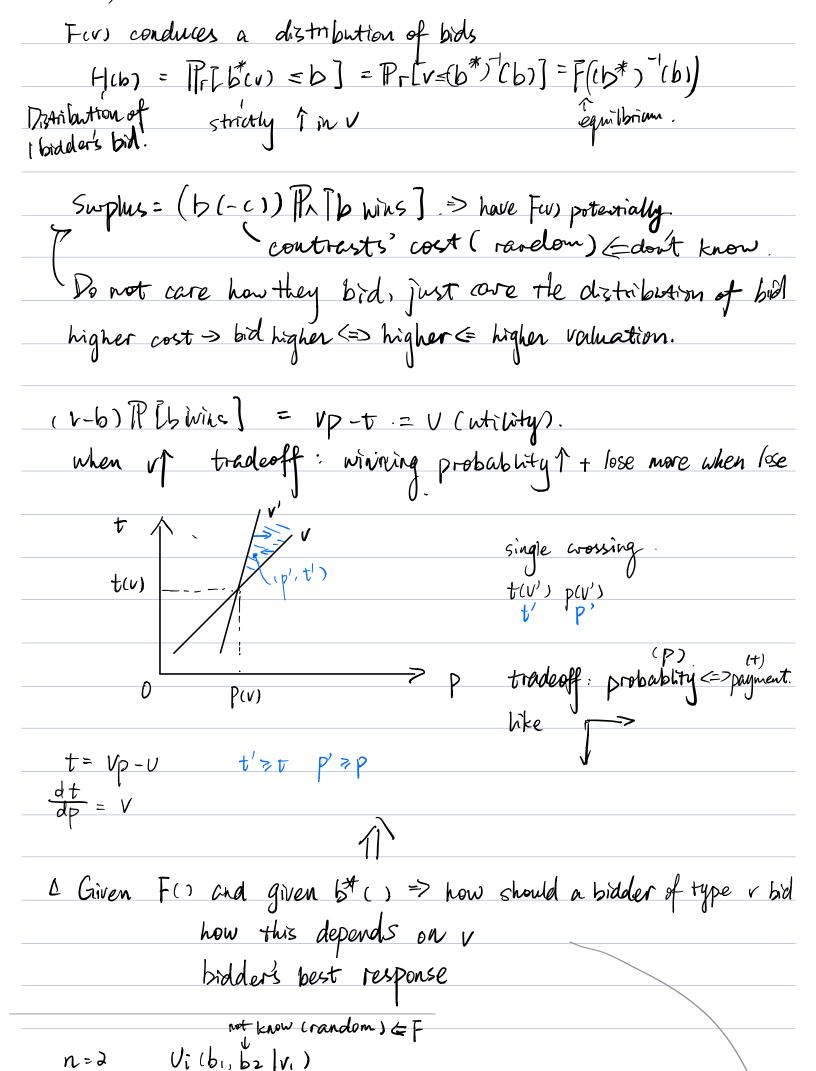
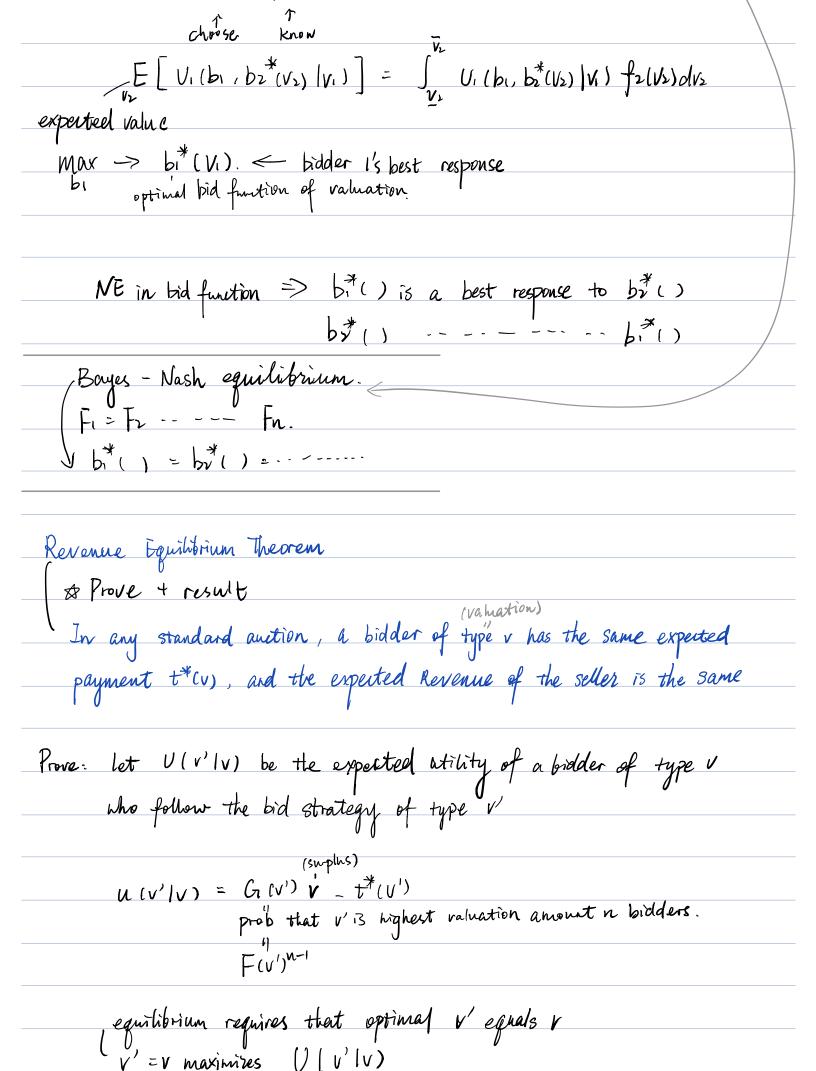
Standard Auction
(*) Object goes to highest valuation biders the lowest bidder type has zero experted payment.
to prove in evaluation is strictly increasing in evaluation is standard
bidding for contracts (How can bidders know others Fevr). winning bids .
assume auction has same number of bidders
fraction of time x bid function / distribution a brid wins. (probablishy of winnig) care about.
winning bid
image of the distribution of first order statistic b*(v)





$$\frac{dv}{dv} = 0 \quad \text{at } v' = v$$

$$\frac{dv}{dv} = v \quad \text{g(v)}$$

$$\frac{dt^*}{dv} = v \quad \text{g(v)}$$

$$t^*(v) - t^*(v) = \int_{v}^{v} x \quad \text{g(x)} dx$$