6.0 Measures of Risk

$$r=0$$
, $T=1$ $V_0=0$ $V_0=0$

 $t=T=|V_{1}(h)(w)|=-h^{0}+\frac{h^{0}}{10}S_{1}(w)|=\begin{cases}-h^{0}+\frac{10}{10}h^{0}=\frac{1}{5}h^{0}, & \text{if } w=w,\\ -h^{0}+\frac{1}{10}h^{0}=-\frac{1}{5}h^{0}, & \text{if } w=w,\end{cases}$

很难找到ho, st. Vi(h)(w)和Vi(h)(h)同时最大 故退而求其次, 我们求正[VrG)]的最大值

Question 1: E[4(h]] 是对哪一个测度来做的? 是用Maningale measure 还是其它P

或对所有多数的,Eq[V(h)]再取 sup => sup Eq[V(h)] Question 2: E[从初]? E[U(4(T))] U= utility function 但随事个,增加的U越为 increasing and concar 最终: max E[U(V1(Ti))] < expected waity optimisation

$$V: \int risk-neutral linear u(x)=x$$

$$risk-averse concave -e^{-x} log x$$

yf相同 E[以(以)], 要考虑风险

VT(h)=0

$$H(h) = \begin{cases} 100 \text{ with prob. } 1/2 \end{cases}$$
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Notation 1: A financial position $X: \Omega \mapsto \mathbb{R}$ is the discounted net worth at the end of the trading period.

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Definition 2= A mapping $f: X \mapsto \mathbb{R}$ is called a monetary measure of risk if for any $X,Y \in X$ 个用来测量风险 f: A 成石 货的风险 (i) (monotonity) If $X \in Y$, then f(x) > f(x) Y这个点比 X 这个点账的钱多。