(b) (es

(c) Not necessarily, the assessment of p is subjective.

(d) (es

(e) The statistizan's assessment of p is crucial.

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(a) long R* and short R

(b) No

(c) No role

$$\begin{array}{lll}
\boxed{3} & E(S_{10}) \\
(1) & = 100 + 10x \left(10x\frac{1}{3} - 10x\frac{2}{3}\right) \\
& = 66.7 \\
P(S_{10} = 100) \\
& = \frac{16}{2} \binom{10}{k} \left(\frac{1}{3}\right)^{k} \left(\frac{2}{3}\right)^{10-k}
\end{array}$$

1) Long C(KI) and shore C(K2)

I layoff is non-negative

: C(KI) > C(K2)

Short C(KI), long C(K2) and issue a bond.

3) Smiler to 2).

(=20, K=22, Y=0.05, U=1,284, d=0,880) p = e = 0,45 If exercise at t=1 -> V= 3.6+pe- = 1.58 exercise at t=2-1V=4.7pe==2.01 $\begin{array}{c}
4.7 \\
0
\end{array}$. V = max (1.58, 2.01) = 2.01

choise this to be pure If we choose ...

13.95 - 18.16 - 13.7

19.04 - 3.9 - 6.32 - 2.87 - 5.7

2.33 - 0.73 - 1.45 - 0

0.73 - 0.73 - 0.73

$$[1] = \frac{4.7}{100}$$



Let
$$p$$
 be a $right-neutral probability$
 $50e^{0.1/6} = 53p + 48(1-p) \Rightarrow p = 0.57$
 $c = 4pe^{-0.1/6} = 2.24$

$$vse^{0.1/6} = vp + 23(1p) \rightarrow p = 0.60 \text{ f}$$

$$V = e^{-0.1/6} \left[vp^2 + 23^2 (1p) \right]$$

$$= 639$$