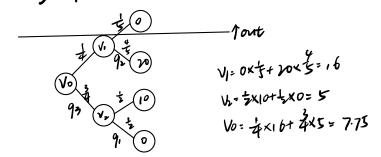
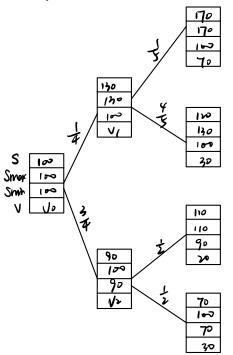
1. (a)
$$q = \frac{S_{t} - Soe^{t-S_{t}}}{S_{t} - S_{t}}$$
 $r = 0 S = 0$

(b) call option k=100.

(c) up-and-out call k=100 X=150.



2.1a). Hookback Smort-Smin.



(b)
$$b = e^{\delta t} \frac{V_4 - V_2}{S_{7} - S_{-}}$$
 $\delta = 0$

$$\frac{38 - 75}{130 - 90} = 0.325$$

In order to nedge, Mr. Smith should short ass shows of stock.

3. Asian optim.

