Exotic Options (Review)

$$V(t) = \underbrace{\mathbb{E}} \left(e^{-r(t-t)} V(t) \mid f(t) \right)$$

$$\text{European:} \quad V(t) = \text{Imax} \left(s(t) - k, 0 \right) \quad \begin{cases} s(t) > k \\ v(t) = s(t) N(d_t) - ke^{-r(t-t)} N(d_t) \end{cases}$$

$$V(t) = s(t) N(d_t) - ke^{-r(t-t)} N(d_t)$$

$$V(t) = \max \left(s(t) - k, 0 \right) \quad \text{iff} \quad s(0) \in \mathbb{E}$$

$$V(t) = \left(s(0) \exp \left(b \widetilde{\omega}(t) - k \right) \right) \cdot \underbrace{1}_{\left(\widetilde{\omega}(t) \geq k \right)} \sum_{i=1}^{\infty} \frac{1}{i} e^{-it} e^{$$

LookBack;

$$V(T) = \max_{t \in T(T)} S(t) - S(t)$$

$$= S(0) \exp(\sigma(\Omega(t)) - S(T))$$

$$V(t) = \mathbb{E}(e^{-r(T-t)} | V(T) | f(t))$$

$$V(t, y) \qquad y(t) = \max_{t \in T(T,t)} S(u)$$

$$v(t, y) \qquad y(t) = \max_{t \in T(T,t)} S(u)$$

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B. many weaker, put
$$K=5$$
 \Rightarrow $6=5-5n$.

 $S_{1}(HH)=1b$ $-\frac{4}{2}(HH)=-11$
 $S_{2}(HH)=1b$ $-\frac{4}{2}(HH)=-11$
 $S_{3}(HH)=1b$ $-\frac{4}{2}(HH)=-11$
 $S_{4}(HT)=4$ $S_{2}(HT)=4$ $S_{3}(TH)=4$
 $S_{4}(TH)=4$ $S_{4}(TH)=4$
 $S_{5}(TH)=4$ $S_{5}(TT)=1$ $S_{7}(TH)=4$

Stopping true