

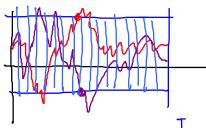
Q= 1200 (ST-K)4

Ty=inf(t: St 2 W)

I, = inf { t: St EL}

T = TuV Ti = max (Tu, Ti)

Q= 17 = + (ST - K),

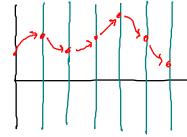


 $S_{t} = S_{o} e^{(t-\frac{1}{2}\sigma^{2})T} + \sigma \int_{T}^{T} Z$ 

Sn = Sn-1 e

 $\mathcal{Z}_1,\mathcal{Z}_2,\ldots,\mathcal{Z}_n$  (i)  $\sim \mathcal{N}(o_i())$ 

sample parter of 5 generated when al.

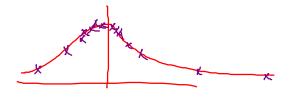


I map 
$$(S_n) \ge u$$
  
 $\int_{S_n} \int_{S_n} \int$ 

$$V_{0} = e^{-rT} \left[ \left( \frac{1}{2} \sum_{s = r} \left( s_{r} - k \right)_{+} \right) \right]$$

$$v_{0} = e^{-rT} \left[ \frac{1}{2} \sum_{m = 1}^{M} \left( s_{r} - k \right)_{+} \right]$$

$$v_{0} = e^{-rT} \left[ \frac{1}{2} \sum_{m = 1}^{M} \left( s_{r} - k \right)_{+} \right]$$



## Stochastic Interest Ride Models

A. 
$$A_{1} = A_{0} e^{-\sigma / \delta t}$$

A.  $A_{2} = A_{0} e^{-\sigma / \delta t}$ 

15.  $e^{-\sigma / \delta t}$ 

16.  $e^{-\sigma / \delta t}$ 

17.  $e^{-\sigma / \delta t}$ 

18.  $e^{-\sigma / \delta t}$ 

19.  $e^{-\sigma / \delta t}$ 

100 into M.H.

100

A 
$$e^{\sigma J_{\Delta}t}$$

$$P = \frac{1}{2} \left( 1 + \frac{\omega_{-\frac{1}{2}\sigma^{2}}}{\sigma} \right) + \dots$$

$$|E^{(1)} = e^{-T} A_0$$

$$|E^{(1)} = e^{-T} A_0|$$

V"[br (Ar/Au)] = V [ ln (Ar/Au)] = 02 T

$$P_{o}(z) = \frac{1}{1+r_{o}} \left( \frac{100}{1+r_{u}} \frac{1}{z} + \frac{160}{1+r_{d}} \frac{1}{z} \right) \Rightarrow \Theta_{o} = 4$$

$$P_{o}(3) = F(\Theta_{1}) \Rightarrow \Theta_{1} = A$$

',

call option on 3-mily be, 11=98.99, T=1-mil

call K= 28.29, T=2 band T=3