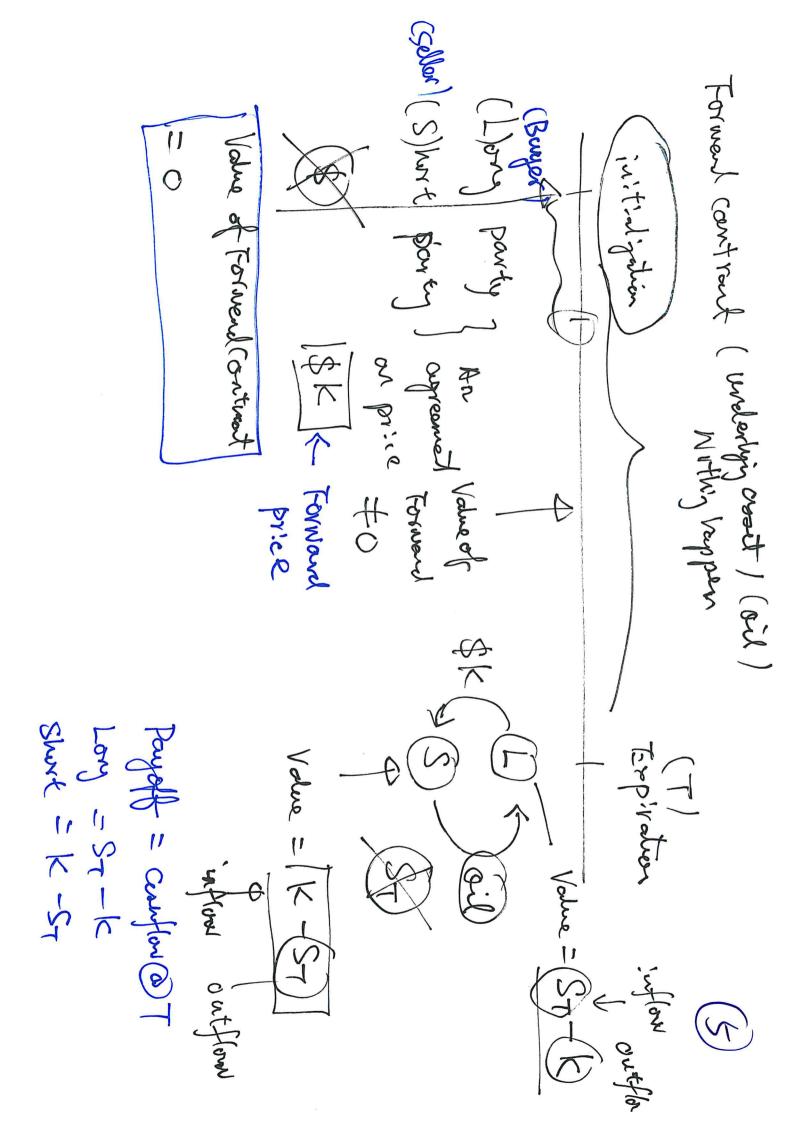
(1) Short Sell Chereles 1 To day: De Firency Derivating 17 Ly sell stock SMOYIOG (A) (\$) Contract "Stack to the wanted market 6-Sep-2018 Stock Commodity Timorycial domestice Contract

> Buy Stock from work

Short Selli T "T Buy stock from wowled Wewlat yeturn stock sall stock borrows stack from -(B) Coshinfor of (A) = -Cookinflow of (A) (055

Profit @ day 90 = FV(So) - |Spo + FV(D)] Consider time value 11 Cosh: Whad [o, doy go] = (FV (S. (PV : NE Pature Value present Value,

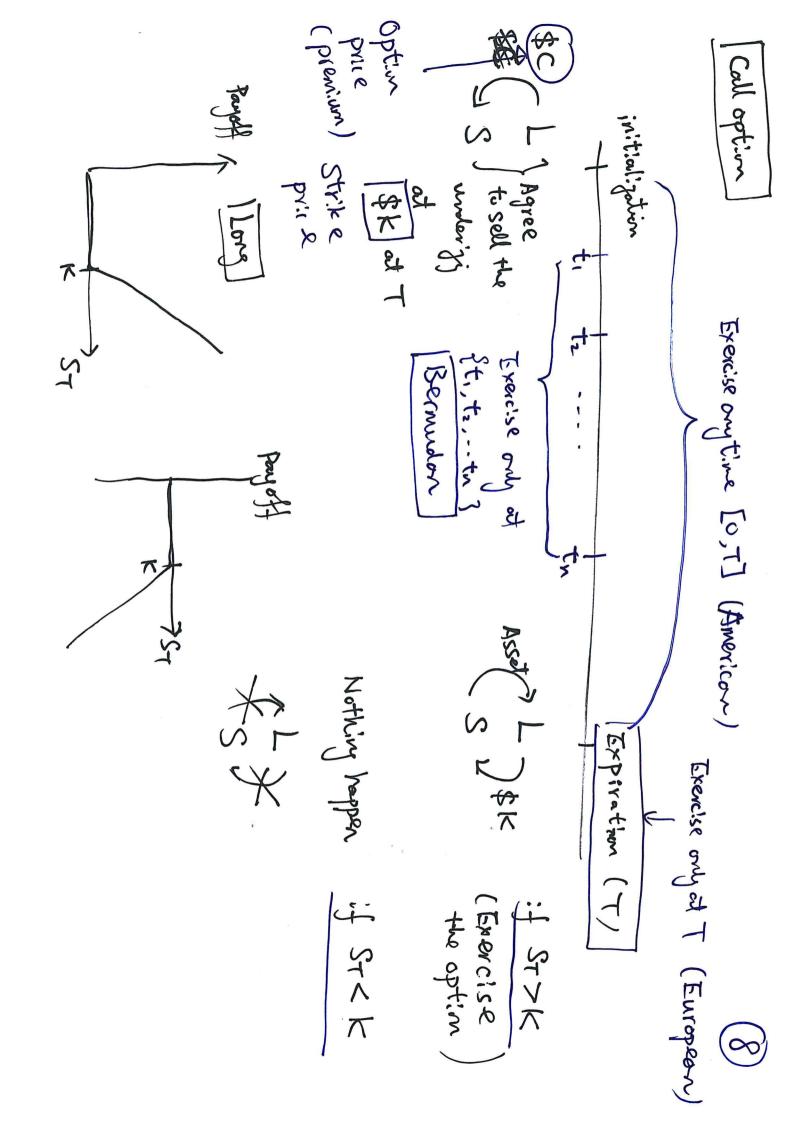
Why (credit risk speculate price of stack of Short Tivencina



Zoro)-compour hand (bord) Sell bond: land the more initial jetur (t-0) price of the zero land the mony [Face Volue =\$ 15) pay & K putwity (T) to the buryer "

P 1 K P= PV(K) = Ke-rT (assume continuens Compounding)

Antifolia (2) = pay So at t=0 and hold the stock. Lary forward Jero compon Portalia (1)) & Bony on Javo - compan hard with face value Long Forward hold a share of stock theop :t 8



1) Poujoly VS maprix @ T = Payoff @T - FV (C) = All cook inflow over Ec, T]

Call option

Ju d Objection to Call aption Sell (News) (0, ST-K) may 0, ST-Ki Call optim forward Obliquation to sell For war S-1-K Short Short

optim premius = \$P hafril = Payoft - FY (option previum) Style price = \$K Lang: New (0, K-51) Short: (- Mey (0) K-ST/ K>S7 TS>>

Call option or Texcent

3-with Call opation K= \$ 340 < \$350 Tencent price +14 350 Taday

8800 K= \$ 380 > \$350

K=\$350 =\$350

3-mil put option K= \$340 350 K = \$ 380 K=\$340<\$36

New ((S7 - K) d) - Inoman - I to

At the more. ant - of -wove

At the waven out - of mony Nex (0, (K-ST)) in - Ale - movey