4.) Put option price (premium) = \$3

carrant stock price = \$42

strike price = \$40

The investor can sell stock at \$40 in future if helshe wants.

Maturity price -

C-1 >= 40: won't exercise the option

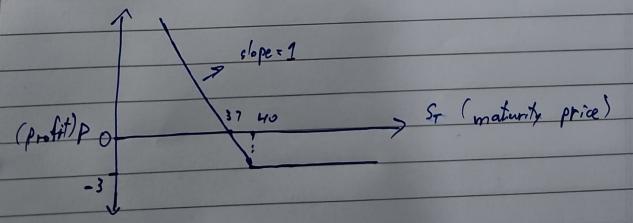
C-2 <40: will exercise the option

P=Poolit = max (40-57,0) -3
where S\_T = philes price at mail maturity

a) 50,

P>=0 only when 5,537

- b) Option will be exercised whom ST < 40
- c) PnL Plot -



Date Page

6) Put-Call Parity Formula

C-P = So- Ke - pt , G = call price, P = put price, So = current state price

K = strike price, T = time to parity pringly in yes

p = risk-free rate.

Putting values,  

$$20-5=130-120e^{-\frac{1}{3}}$$
  
 $e^{-\frac{1}{3}}=\frac{115}{120}$ 

$$H = l_n(120/115)$$
  
 $I_{r_f} = 0.04256 = 4.256 \%$