3. Option Strategies

Covered Writing

- you have long asset already
- (option overwriting)
- called Naked writing it you dou't have towasset

Coups (short asset)

Covered Call

Covered put (short asset)

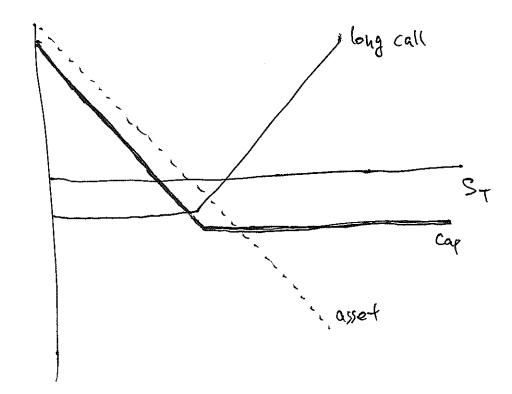
Floors (protective put) + long put = long call long asset - A Gurantees sales price of asset

/asset

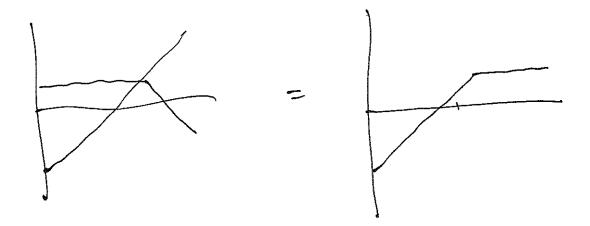
Caps

Short asset + long call = long put.

-> Gurantees purchase price of buying back the asset.

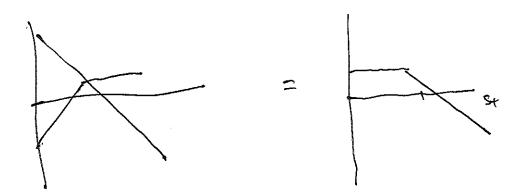


Covered Call long asset + short call = short pot.



- used when the price may stay the same or so up.

Covered Put short asset + long put



- used when price may stay or go down.

Naked Writing

No asset is hard.

Spread Sull spread

Box spread

Ratio spread

Collars -

Spreads

You tink a stock price will vise, (Count spot price \$ 1000).

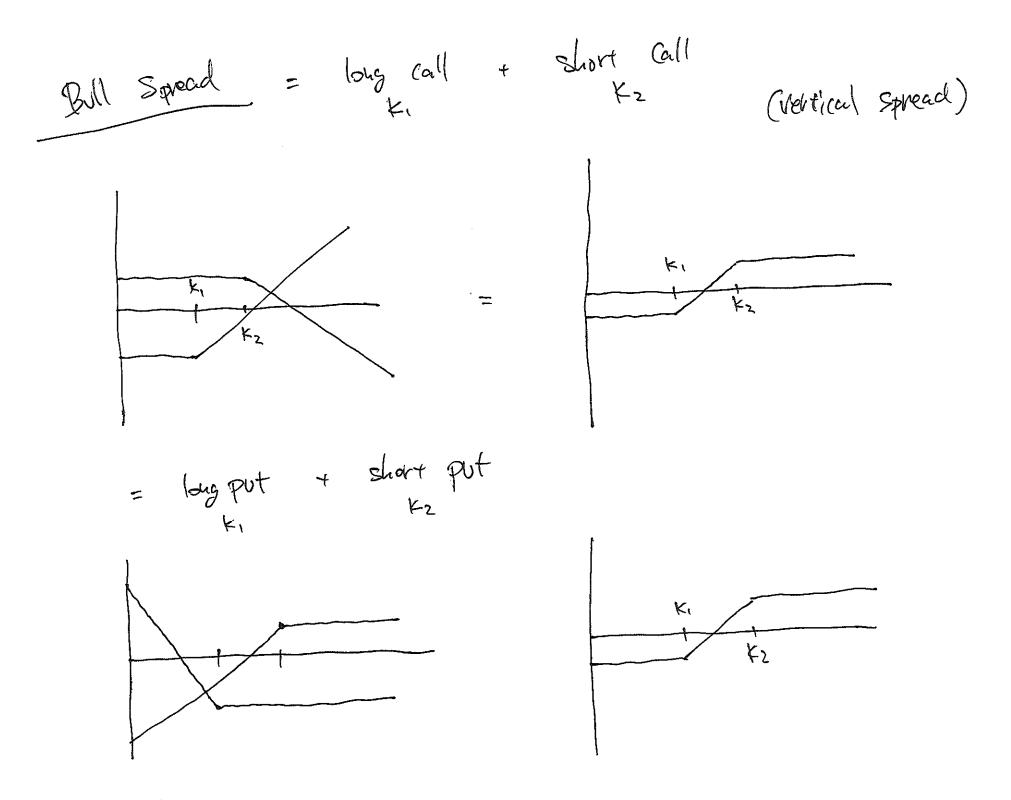
- Long pos. in future at \$1000

Risky.

-+ Long Call 9+ \$1000

Less Risky. Must pay prehium.

Is there auxthing that is low risk, but less cost?



Example 3.2 40-Strike Call Long 3mo. preh \$2.78 541.81 45-Strike Call Short 3mo. "\$.99 Payott Combined Pay off 45 40 Protit

Box Spreads

= Synthetic law torward + Synthetic story torward.

+ Quantied Cash low in fixture.

I will not affected by stock price

Like Lending / borrowing money

-A like buying a bond.

Ratio Spreads

Long in calls at ki-strike 3 same maturity date same asset.

Short in Calls at ki-strike

_+ can be constructed by puts

- Can make prehibbn = 0

It related to paylater grategy.

- Insurance that cost you o it not needed but cost more it you held it.

Collars

Lorg put t short Call
K1

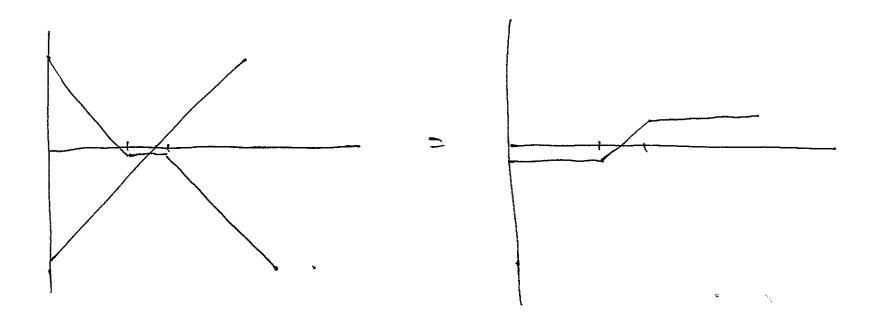
K2

coller width

K, K2

- K' K

Collard Stock (covered writing)
= Long asset + collor.



- like a bull spread.

Zero-Cost Collars

Coller = long put + Short Call
K, MM

Adjust k, so that premium for put and call will cancel out.

Non-Directional Stratesies

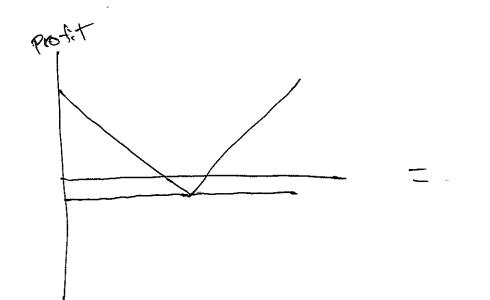
(Naked)

Strandles
Strangles
Butterfly Speads

Stroddles

Long call + Long put

save K.



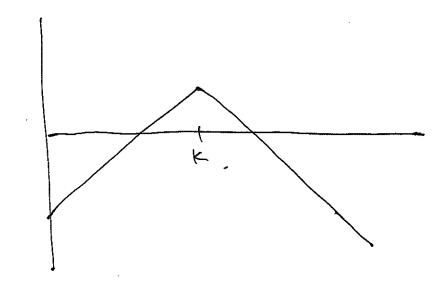
_ wake profit either way

- high premium

Written Straddles

short call + short put

Saha k Same T

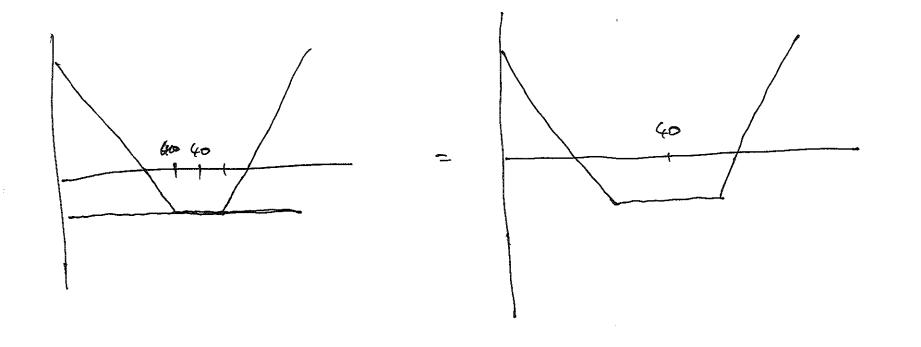


- profit if volatility is low.

Strangle

long call + long put same T

I same as straddle, but thate them out-of-money so that the premium will be cheaper, t smaller potential loss.



Buttertly Spreads

Short straddle + long strangle

