

Covered Interest Parity Example

$$\text{CIP: } R = R^* + \frac{F - E}{E}$$

Suppose: $R = .08$ (8% per year)

$R^* = .05$ (5% per year)

$E = 1.3$ (\$/euro)

$F = 1.365$ (\$/euro)

What would you do?

Covered euro return:

$$.05 + \frac{1.365 - 1.3}{1.3} = .05 + .05 = .10 > .08!$$

Arbitrage: Borrow low, Lend high

- 1.) Borrow \$100 [must pay back \$108]
- 2.) Convert to 76.923 euro
- 3.) Invest in euro deposit [get 80.769 euro]
- 4.) Sell the euro forward [get \$110.25]

\$ 2.25 pure arbitrage profit!

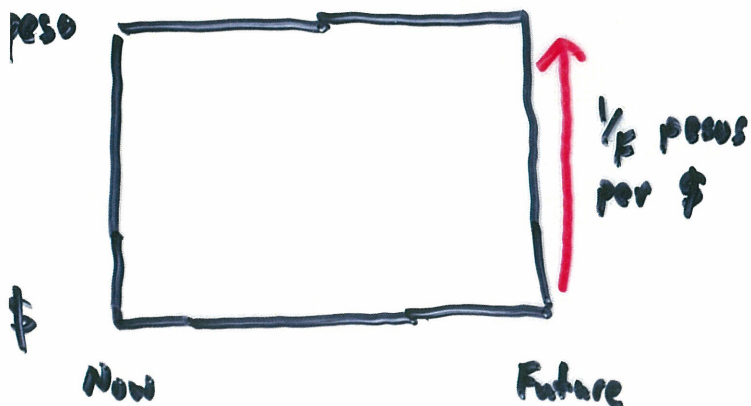
Synthetic Forwards

Suppose you want pesos 2 years from now at a known price, but there is no 2-year forward market in pesos.

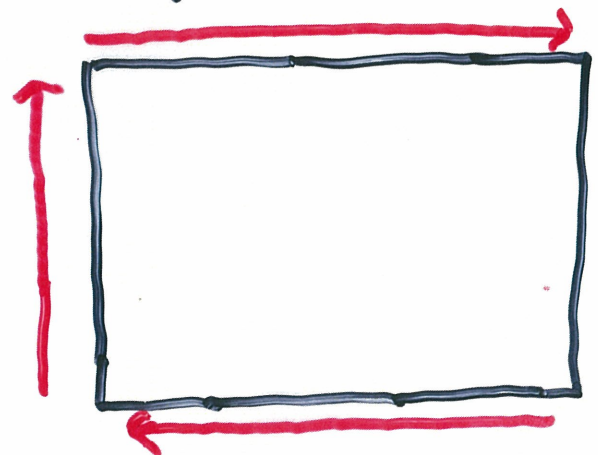
Key Point : Buying a currency forward is equivalent to borrowing domestically and lending abroad.

Both require you to pay domestic currency in the future + receive foreign currency.

Forward Purchase



synthetic forward



- 1.) Borrow $\frac{1}{1+R}$ \$
- 2.) Convert to $\frac{1}{1+R} \frac{1}{E}$ pesos
- 3.) Invest in pesos + get $\frac{1+R^*}{1+R} \frac{1}{E}$ future pesos

$$\frac{L}{F} = \frac{1+R^*}{1+R} \frac{1}{E}$$