Assume that you can buy or sell (or short-sell) any of the following securities:

Risk-free bonds: bonds that mature one year from today earn 3% per year and bonds that mature two years from today earn 5% per year.

Risky securities:

	Prices Today:		Payoff one year from today if the economy is:		Payoff two years from today if the economy is:	
Security	Bid	<u>Ask</u>	Strong	Weak	Strong	<u>Weak</u>
Private Dell	\$203	\$207	\$100	\$50	\$200	\$100
MS Machine	\$183	\$186	\$0	\$0	\$300	\$100

Golden Fleece ETF: Golden Fleece ETF holds the following positions (per share): long 3 shares of Private Dell, short 1 share of MS Machine, short \$100 of risk-free bonds that mature one year from today, and long \$200 of risk-free bonds that mature two years from today. The bid price for this ETF is \$530 and the ask price for the ETF is \$535.

What set of transactions today will generate an arbitrage profit for you today. In your answer list all transactions required today and all individual and total cash flows today, a year from today, and two years from today. Use a "+" for an inflow of cash and a "-"for an outflow of cash. Note: I recommend setting up a table like is in the notes.

Payoffon ETF: 4 1:5=3(100)-100=200; W=3(50)-100=50 WZ: 5=3(200)-300+200=500; W=3(100)-100+200=400 Cost of bonds: 1-4+ = 100 = 97.09; Z-y- 200 = 181.41 CO4 to buy equiv part = 3(207)-183-97.09+181.41 =522.32 Proceeds from sellinger = 3(203) -186-97.09 +181.41 = 507.32 => Arbitrage = short ETE & buy portfolio Trans

+3 Short ETE +530
+530
+530
+530
+621
+7 Short MSM +183
+3 Short MSM +27
+3 Short MSM +27
+3 Short MSM +27
+3 Short MSM +27
+7.68

Total

Total