Assume that you can buy or sell risk-free bonds that mature for any dollar amount either a year from today or two years from today. All risk-free bonds pay an annual interest rate of 4%. Assume also that you can buy or sell the following securities at the market prices listed:

		Payoff one year from		Payoff two years from		
		today if the economy is:		today if the economy is:		
Security	Market Price	Strong	<u>Weak</u>	Strong	<u>Weak</u>	
X	70	100	50	0	0	
Z	160	0	0	200	150	
ETF	445	150	100	400	300	

- a. What portfolio of securities will generate cash flows identical to those generated by the ETF?
- b. What is the no-arbitrage price of the ETF?

Note: Feel free to answer parts "c" and "d" with a table

- c. What set of transactions today will generate an arbitrage profit today?
- d. What cash flows (each trade and total) will your transactions produce today, a year from today, and two years from today?