- 1. (30 points) Assume today's settlement price on a CME EUR futures contract is \$1.30/€. The contract is written on €125,000 and you have a <u>short</u> position in one contract. The initial performance bond is \$6,500, and the maintenance performance bond is \$4,000.
 - A. On day 1, the settlement price became \$1.29/€, what is your performance bond account balance at end of day 1?

B. On day 3, the settlement price became \$1.32/€, you decide to close your position. What is your **total** gain or loss?

- (70 points) From the perspective of the writer of a put option written on €62,500. If the exercise
 price is \$1.55/€, and the option premium is \$0.03.
 - A. At what exchange rate do you start to lose money (i.e. break-even exchange rate)?

B. What is your maximum profit?

C. What is your maximum loss?

$$(1.55 - .03) \times 62,500 = 1.52 \times 62,500 = 95,000$$

D. If the spot exchange rate is \$1.54/€ calculate the intrinsic value and the time value of the put option.

E. Draw your profit graph for this put option (Put writer Profit Graph)

