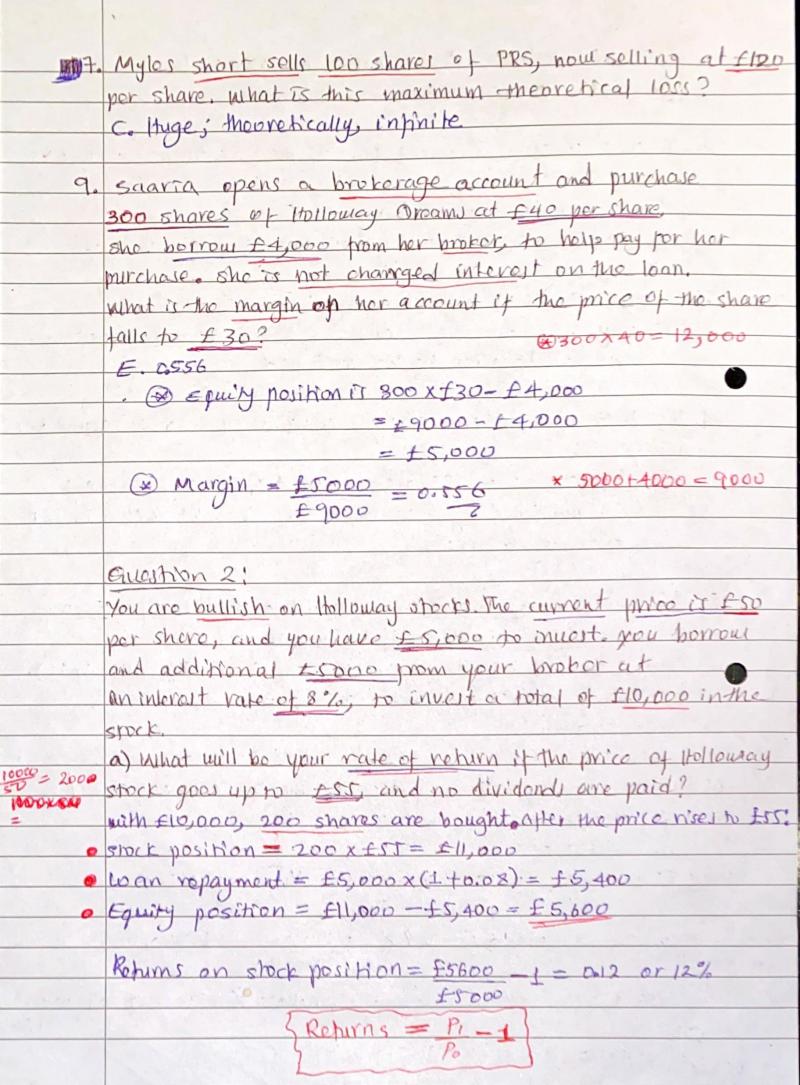
	EC5321: Investment & Portfolio Management
	Solutions to problem set 2
1	When an investor borrous part of the investment cost it is
	known as
	Coa margin transaction
-2	. A block trade is one which involves a minimum of
	C. 10,000 shares
3.	a pure auction market as one in which
	e. buyers and sellers submit bid and ask prices to a
	central location to be matched.
•	
4.	The basic distinction between a primary and a secondary
	marketis
e l	copy now securities are sold in the primary market;
	only putstanding securities are bought 4 sold in the
	secondary market.
5.	Yvonne has a margin account with a balance of €150,000.
9, 1, 1	The initial margin deposit is 60 per cent &
	Turtle Industries is earrently selling at €50 per share.
1 Sec. 18	How Many shares of Turtle can Yvonne purchase?
	0.5,000
Mr. In the	
6.	Refer to the previous questions, what is Yvonne's propitions
Later of the second	if Turtle's price after one year is \$40?
	b€ 50,000
0	(5) letting X = total investment, Yvonne's share will
	represent 60 per cent.
	so, 0.60X-€150,000 x X=€150,000 = €250,000
	0.60
	At €50 per share, she can purchase [€ 250000; £50):5000
0	A same
LOSS/	Profit = (40-50) × 5000 = - = 50 000:



b) If the price falls to a cortain lovel, you will get a margin call from the broker of the maintenance margin is reached. Assume that maintenance margin is 30%. thoughar does the price have to plummet for the call to be triggered? let the price at which margin call is triggered be P Equity position = 200p -5400 Percentage margin is given by (200p-5,400) = 0.3 200p-60p = 54,000 A loon pepayment = 1 54,000 P = 5400 = 38.574. The price how to fall below £38.571 for me call to be higgered. in the book #1 pay e 144 You have \$40,000 to muest in Sophie shoes, a stock selling for \$20 a share. The initial margin requirement is 60 percent. Ignoring taxes & commissions, show in detail the impact on your rate of return if the stock rises to \$100 a share 7 if it declines to \$40 a share a) you pay each for the shock b) you byy it using maximum loverage a) Assume you pay each for the stock: Number of shares you could purchase = \$40,000 = 500 shares (3) If the stock is later sold at \$100 a share, the total share proceeds would be work \$100 × 300 shares = \$50,000

Therefore, the rate of return from investing in the stock of

= \$50,000 - \$40,000 = 25.00%

440,000

DIT stock is later sold at \$40 a share, the total shares proceeds would be \$40 x \$500 shares = \$ 20,000 Therefore, the rate of return from investing in the stock mould be: = \$20,000 - \$40,000 = -50.00% \$40,000 b) Assuming you use the maximum amount of leverage on buying the stock, not at the concept of 'Leverage Factor' The reverage factor for a 60 percent margin requirement = 1 = 5

Percentage margin requirement 0.60 3 \$100 a share = 25.00%x5 = 41.67% In contrast, the rate of repurn on the stock if it is sold for \$40 a share:

= -50.00% X5 = -83.33°/

Promthe book page 144 # 4

Ornestion 4:

Farms when it is solling at its yearly high of \$56. your broker tells you that your margin requirement is its percent & that the commission on the purchase is \$155. while you are short the stock Charlotte pays a \$2.50 per share dividend. At the end of one year, you byy loo shares of charlotte at \$45 to close but your position & are charged a commission of \$145 & & percent interest on the money bornoused.

What is your rate of return on the muestment?

- * Profit on a short sale = Begin Value Ending Value Dividends -
- *Beginning Value of Investment = \$56,00x100 shares = \$5,600
 (Sold under a short sale arrangement)
- your investment = margin requirement = (0.45x\$5,600)
 =\$2,520
- cost of closing our position)
- * Dividends = \$2.50 x 100 shares = \$250,00
- * Transaction costs = \$155+\$145 = \$300.00
- * Interest = 0.08x (0.55) x \$5,600) = \$246.40

Profit = \$5,600 - \$4,000 - \$250 - \$300 - \$246.40= \$303.60

The rate of return on your investment of \$2,520 is: \$303.60 = 12.05%

young people with little wealth should not must money in risky assets such as the stock markets because they can't afford to lose what little money they have! - Do you agree or disagree with this statement why? we need to consider the investor's life cycle here . One assumes that the young person has a steady job, - a steady job - adequate insurance coverage & - sufficient cash reserves . The young Individual is in the accumulation phase of the investment life cycle. - During this phase, -an individual should consider moderately high-ruk Investment, such as common stock ble helshe has > a long investment harizon ? > much earnings ability over time.