## EC5321: Investment & Portfolio Management

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e Value stocks

-are those stocks that find to trade at lower prices relative to their fundamentals.

Cexample: dividends, earnings & sales) &

- Thus considered undervalued by fundamental analysts.

\* common characteristics of such stocks including a high dividend xield

> low price-to-book ratio Flor

> loui price-to-earnings ratio.

· Crowth stocks

are stocks of companies that generate substantial a sustainable positive moome & whose revenue & earnings are expected to increase at a fatter rate than the avorage company within the same industry.

\* A growth company typically has some sort of competitive advantage

(- a new product

- a breakthrough patent - overseas expansion)

that allows it to outperform competitors.

- usually pay smaller dividends, or no dividends at all, as the companies tend to be in the technology sorter of the economy.

For exemple! Amazon, Google & Tesla are growth companies, with growth stocks.

b) What is a Contrarian strategy? · Contrarian strategy - is an investment style that goes against prevailing market trends by buying poorly performing assets & - then selling when they perform well. - is the opposite of croud behaviour . Conying when price is going up & selling when price is going down). Buestion 2: The risk proc rate of rehirn, of is 1.5%, and the return on the market, I'm Is 3%. Suppose the beta of stock A is 1.2 and the beta of stock a) find the expected return according to the CAPM on stocks A & B. - ry = the risk pree rate of return - m = return on the market (E(T) = F+B-(E(Fm)-F) -E(T) = the expected return  $E(Y_A) = 1.5\% + 1.2(3-1.5)\% = 3.3\%$ E(1/8) = 1.5% + 2(3-1.5)% = 4.5% b) Now suppose that given the traded prices of shocks A 7 B, you find that the actual realized returns of these two stocks are 1/2 = 4.3 % & 1/8 = 4 % How should you must in those two stocks? Alpha of stock A = VA - E (VA) = 4.3 - 3.3 = 1% - A has a positive alma, so me should buy it Alpha of stock B= 18-E(18) = 4-4.5 =-0.5% -B has a negative alpha so we should short soll it, or It we have it in our portfolio, we should sell it

incompatible with the semi-strong form of the EMH. Therefore, we injer that this market is not efficient in the semi-strong form. Elvestion 4 use the data in the Excel spreadshoot JKSE, which contains the daily price of the Jakarta Stock Exchange index, to carry out a runs test on price changes. Determine whether the prices / returns follow a random see the workings in the Excel spreadshoot in Moodle, entitled 1 Runs Test on JKSE' - Pay particular attention to the function used to calculate the number of runs, R, the numbers of positive runs 11 and negatives runs n2. Our conclusion is that the Jakarta Stock Exchange index does not show any significant pattern in price movement that allows us to make abnorman returns. Returns are random, and the stock exchange could be efficient in the work-form-