### Assignment Project Exam Help Economics of Finance

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#### Expected utility

# Assignment Project Exam Help $Eu = e - \frac{1}{t} = e - \frac{s^2}{t},$

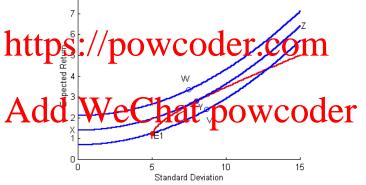
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- s is the standard deviation of the expected return,
- is the investor's risk talerance and c is risk aversion.
- ullet tor c can be time-varying and wealth-dependent, but for simplicity we assume they are constant

#### Optimal Portfolio Choice

- Investor will maximize the utility (blue indifference curves)
- Given the e-s opportunities (red) available on the market efficient frontier of a portfolio

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Why is efficient frontier concave?

#### Efficient Frontier: many securities

Efficient frontier is as the most "optimal" portfolio of portfolios of all risky securities



Combine portfolios of risky assets with a risk-free asset

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The point of tangency T is called "Market portfolio", the best portfolio of risky assets on the market you can use to combine with the risk-free asset.

What about combinations with F and E portfolios?

#### Sharpe ratio

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where the Sex especial of the far Collina (risk) of a risky asset/portfolio.

- reflect the tradeoff between excess return and risk
- simple vay two rediffects possymptotise er
  usually S > 1 is acceptable, S > 2 is very good

#### Sharpe ratio of the Market portfolio

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 $S_M = \frac{e_M - e_f}{s_M}$  is the slope to the tangent line and therefore the best Sharpe ratio available on the market