

# The Demand for Risky Assets

## Risk and the Budget Line

### ■ Observations

1) The final equation  $R_p = R_f + \frac{(R_m - R_f)}{m} p$

is a budget line describing the trade-off between risk ( $\sigma_p$ ) and expected return ( $R_p$ ).



# The Demand for Risky Assets

## Risk and the Budget Line

■ Observations:  $R_p = R_f + \frac{(R_m - R_f)}{\sigma_m} p$

2) Is an equation for a straight line:

$R_m$ ,  $R_f$ , and  $\sigma_m$  are constants

3) Slope =  $(R_m - R_f) / \sigma_m$



# The Demand for Risky Assets

## Risk and the Budget Line

### ■ Observations

3) Expected return,  $R_P$ , increases as risk increases.

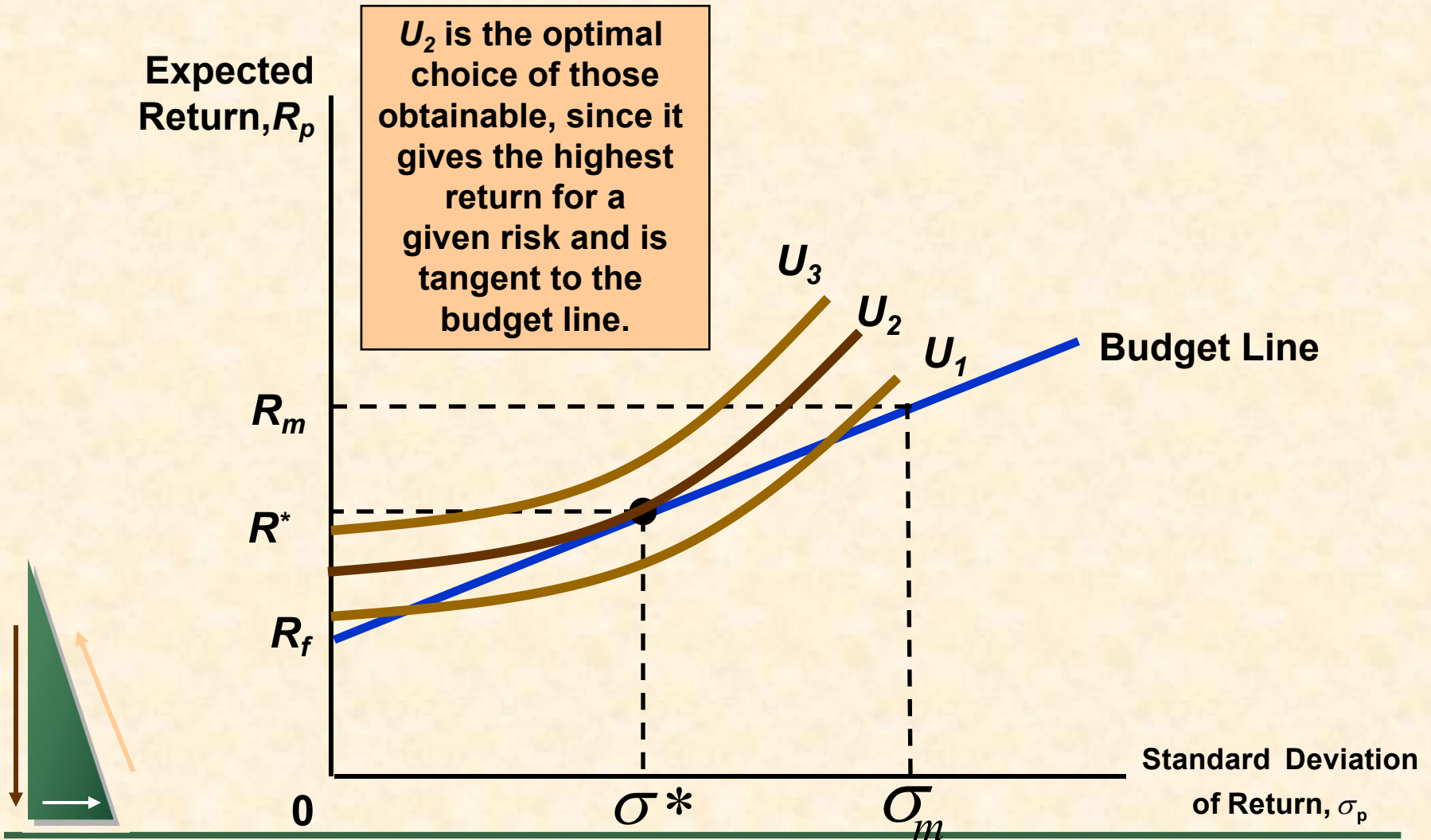
4) The slope is the price of risk or the risk-return trade-off.



# Choosing Between

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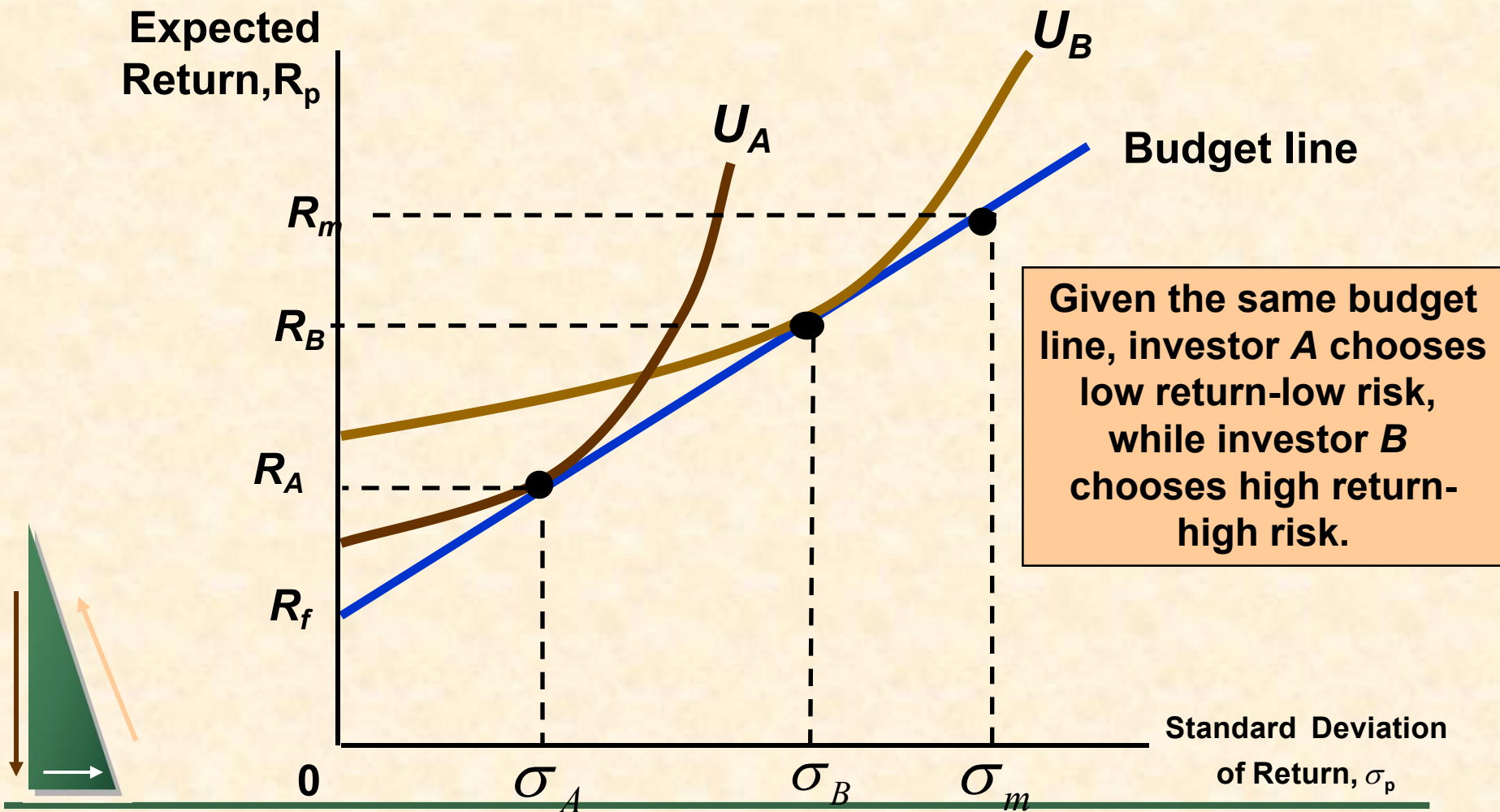
# Risk and Return



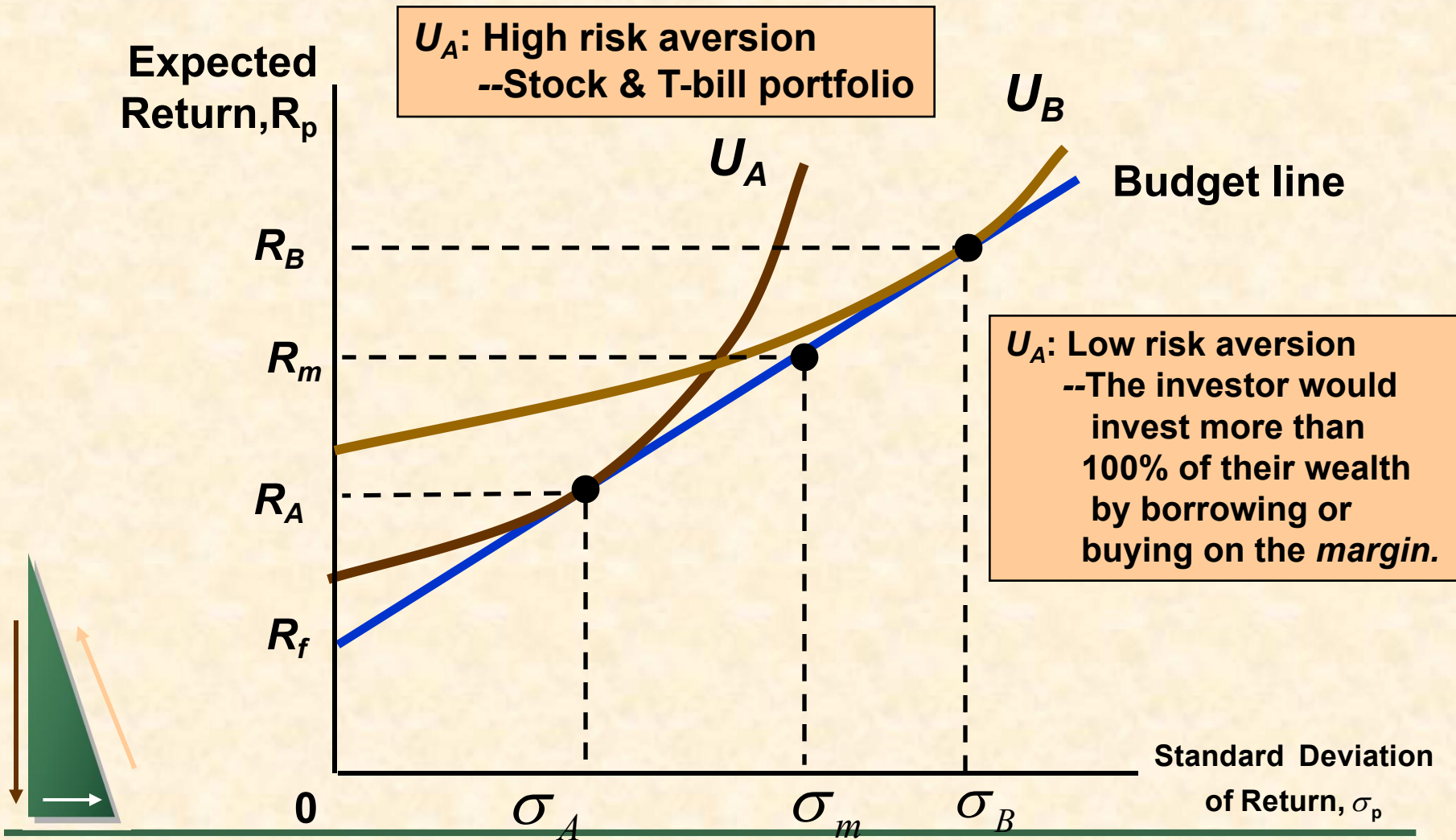
# The Choices of

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# Two Different Investors



# Buying Stocks on Margin



# Investing in the Stock Market

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## ■ Observations

- Percent of American families who had directly or indirectly invested in the stock market
  - ◆ 1989 = 32%
  - ◆ 1995 = 41%



# Investing in the Stock Market

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## ■ Observations

- Share of wealth in the stock market
  - ◆ 1989 = 26%
  - ◆ 1995 = 40%





# Investing in the Stock Market

## ■ Observations

### ● Participation in the stock market by age

#### ◆ Less than 35

- 1989 = 23%
- 1995 = 29%

#### ◆ More than 35

- Small increase



# Investing in the Stock Market

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- What Do You Think?
  - Why are more people investing in the stock market?



# Summary

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- Consumers and managers frequently make decisions in which there is uncertainty about the future.
- Consumers and investors are concerned about the expected value and the variability of uncertain outcomes.



# Summary

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- Facing uncertain choices, consumers maximize their expected utility, and average of the utility associated with each outcome, with the associated probabilities serving as weights.
- A person may be risk averse, risk neutral or risk loving.



# Summary

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- The maximum amount of money that a risk-averse person would pay to avoid risk is the risk premium.
- Risk can be reduced by diversification, purchasing insurance, and obtaining additional information.



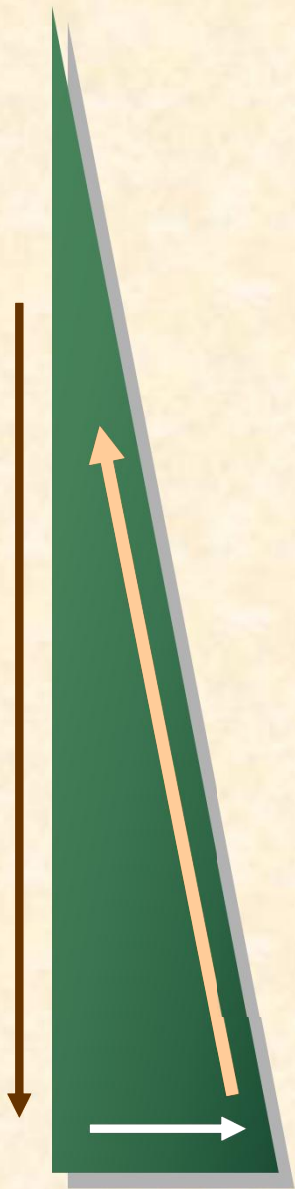
# Summary

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- The law of large numbers enables insurance companies to provide actuarially fair insurance for which the premium paid equals the expected value of the loss being insured against.
- Consumer theory can be applied to decisions to invest in risky assets.





# End of Chapter 5

## Choice Under Uncertainty