Financial Mathematics

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¹Based on Robert L. McDonald's *Derivatives Markets*. 3rd Ed. Pearson. 2013.

Chapter 5. Financial Forwards and Futures

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- § 5.1 Alternative ways to buy a stock
- § 5.2 Prepaid forward contracts on stock
- § 5.3 Forward contracts on stock
- § 5.4 Futures contracts
- § 5.5 Problems

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Definition 5.4-1 **Future contracts** are essentially exchange-traded forward contracts.

Typical features of futures contracts include:

- ► Standardized, with specified delivery dates, locations, procedures
- ► A clearinghouse

Matches buy and sell orders

Keeps track of members' obligations and payments

After matching the trades, becomes counterparty

Differences from forward contracts

- ► Settled daily through the mark-to-market process
- \blacktriangleright Highly liquid: easier to offset an existing position
- ► Highly standardized structure
- Low credit risk
- ► There are typically daily price limits.

We will not go further in this section. Interested students can read the textbook.