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Example 8.3

Suppose a stock is \$60, a European call with strike price \$70 costs \$1 and a European put with strike price \$50 costs \$3. Draw profit graphs for the following strategies (ignoring the time value of money) and determine for which stock prices the profit will be positive.

(a) Long positions in a call and a put.
(b) Long positions in three calls and two puts.
(c) Long stock, long put, short call.

(d) Long stock, two long puts, two short calls.

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Remark 8.4

• Assets underlying exchange-traded options:
• Stocks (\* 1000 different ones, usually 100 shares per contract)
• Foreign currency (size depends on currency, e.g., £31,250; 6.25 million yen)
• Stock indices (100×index, settlement in cash)
• Futures (option matures just before delivery period for futures)

Remark 8.4 (continued)

• Stock options specifications:
• Expiration date (Sat right after 3rd Fri of expiry month, 4:30 pm)
• Strike price (spacing \$2.50/5/10)

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