

CHAPTER 14

The Black-Scholes-Merton Model

Problem 14.1.

What does the Black-Scholes-Merton stock option pricing model assume about the probability distribution of the stock price in one year? What does it assume about the continuously compounded rate of return on the stock during the year?

The Black-Scholes-Merton option pricing model assumes that the probability distribution of the stock price in 1 year (or at any other future time) is lognormal. It assumes that the continuously compounded rate of return on the stock during the year is normally distributed.

Problem 14.2.

The volatility of a stock price is 30% per annum. What is the standard deviation of the percentage price change in one trading day?

The standard deviation of the percentage price change in time Δt is $\sigma\sqrt{\Delta t}$ where σ is the volatility. In this problem $\sigma = 0.3$ and, assuming 252 trading days in one year, $\Delta t = 1/252 = 0.004$ so that $\sigma\sqrt{\Delta t} = 0.3\sqrt{0.004} = 0.019$ or 1.9%.

Problem 14.3.

Explain the principle of risk-neutral valuation.

The price of an option or other derivative when expressed in terms of the price of the underlying stock is independent of risk preferences. Options therefore have the same value in a risk-neutral world as they do in the real world. We may therefore assume that the world is risk neutral for the purposes of valuing options. This simplifies the analysis. In a risk-neutral world all securities have an expected return equal to risk-free interest rate. Also, in a risk-neutral world, the appropriate discount rate to use for expected future cash flows is the risk-free interest rate.

Problem 14.4.

Calculate the price of a three-month European put option on a non-dividend-paying stock with a strike price of \$50 when the current stock price is \$50, the risk-free interest rate is 10% per annum, and the volatility is 30% per annum.

In this case $S_0 = 50$, $K = 50$, $r = 0.1$, $\sigma = 0.3$, $T = 0.25$, and

$$d_1 = \frac{\ln(50/50) + (0.1 + 0.09/2)0.25}{0.3\sqrt{0.25}} = 0.2417$$

$$d_2 = d_1 - 0.3\sqrt{0.25} = 0.0917$$

The European put price is

$$50N(-0.0917)e^{-0.1 \times 0.25} - 50N(-0.2417)$$

$$= 50 \times 0.4634e^{-0.025} - 50 \times 0.4045 = 2.37$$

or \$2.37.

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Table of Contents Hull Solution Manual 8th Edition

1. Understanding the eBook Hull Solution Manual 8th Edition
 - The Rise of Digital Reading Hull Solution Manual 8th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Hull Solution Manual 8th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hull Solution Manual 8th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hull Solution Manual 8th Edition
 - Personalized Recommendations
 - Hull Solution Manual 8th Edition User Reviews and Ratings
 - Hull Solution Manual 8th Edition and Bestseller Lists
5. Accessing Hull Solution Manual 8th Edition Free and Paid eBooks
 - Hull Solution Manual 8th Edition Public Domain eBooks
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- Hull Solution Manual 8th Edition Budget-Friendly Options
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hull Solution Manual 8th Edition
 - Highlighting and Note-Taking Hull Solution Manual 8th Edition
 - Interactive Elements Hull Solution Manual 8th Edition
- 8. Staying Engaged with Hull Solution Manual 8th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hull Solution Manual 8th Edition
- 9. Balancing eBooks and Physical Books Hull Solution Manual 8th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hull Solution Manual 8th Edition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hull Solution Manual 8th Edition
 - Setting Reading Goals Hull Solution Manual 8th Edition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hull Solution Manual 8th Edition
 - Fact-Checking eBook Content of Hull Solution Manual 8th Edition
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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