

Name \_\_\_\_\_

## Wealth in Equations: How Differential Equations Shape Economics and Finance

### Multiple Choice Questions

1. What is one application of differential equations in economics?
  - A) Modeling economic growth
  - B) Predicting weather patterns
  - C) Studying ancient civilizations
  - D) Analyzing musical compositions
  
2. How do financial analysts use differential equations in finance?
  - A) To predict stock prices
  - B) To design clothing patterns
  - C) To study animal behavior
  - D) To forecast weather patterns
  
3. What is the primary purpose of stochastic differential equations in finance?
  - A) Modeling risk and uncertainty
  - B) Analyzing geological formations
  - C) Designing architectural structures
  - D) Predicting population growth
  
4. What do financial managers use differential equations for in portfolio management?
  - A) Analyzing musical compositions
  - B) Predicting weather patterns
  - C) Studying ancient civilizations
  - D) Optimizing investment strategies
  
5. How do differential equations contribute to understanding financial markets?
  - A) By studying animal behavior
  - B) By forecasting stock prices
  - C) By analyzing geological formations
  - D) By designing clothing patterns

