- 1. Which of the following numerical methods is best for solving differential equations?
- a. Euler's method
- b. Runge-Kutta method
- c. Predictor-corrector method
- d. All of the above
- 2. Which of the following is NOT a type of numerical method for solving differential equations?
- a. Euler's method
- b. Runge-Kutta method
- c. Predictor-corrector method
- d. Linear interpolation
- 3. Which of the following is NOT a advantage of using numerical methods for solving differential equations?
- a. Numerical methods are faster than analytical methods.
- b. Numerical methods are more accurate than analytical methods.
- c. Numerical methods can be used to solve equations that cannot be solved analytically.
- d. Numerical methods are more difficult to understand than analytical methods.
- 4. Which of the following is NOT a disadvantage of using numerical methods for solving differential equations?
- a. Numerical methods are slower than analytical methods.
- b. Numerical methods are less accurate than analytical methods.
- c. Numerical methods can be used to solve equations that cannot be solved analytically.
- d. Numerical methods are easier to understand than analytical methods.
- 5. Which of the following is the best choice for solving a differential equation when accuracy is more important than speed?
- a. Euler's method
- b. Runge-Kutta method
- c. Predictor-corrector method
- d. Linear interpolation

Answer Key: 1. d, 2. d, 3. d, 4. d, 5. c