- 1. What is a first order differential equation?
- A. An equation that can be solved using only one derivative
- B. An equation that can be solved using only one integral
- C. An equation that can be solved using both derivatives and integrals
- D. An equation that cannot be solved using derivatives or integrals
- 2. What is a second order differential equation?
- A. An equation that can be solved using only two derivatives
- B. An equation that can be solved using only two integrals
- C. An equation that can be solved using both derivatives and integrals
- D. An equation that cannot be solved using derivatives or integrals
- 3. How do you solve a first order differential equation?
- A. By using only one derivative
- B. By using only one integral
- C. By using both derivatives and integrals
- D. By using neither derivatives nor integrals
- 4. How do you solve a second order differential equation?
- A. By using only two derivatives
- B. By using only two integrals
- C. By using both derivatives and integrals
- D. By using neither derivatives nor integrals
- 5. What is the order of a differential equation?
- A. The highest derivative in the equation
- B. The highest power of the independent variable in the equation
- C. The highest power of the dependent variable in the equation
- D. The highest power of the independent variable in the equation divided by the highest power of the dependent variable in the equation
- 6. What is the degree of a differential equation?
- A. The highest derivative in the equation
- B. The highest power of the independent variable in the equation
- C. The highest power of the dependent variable in the equation

- D. The highest power of the independent variable in the equation divided by the highest power of the dependent variable in the equation
- 7. What is an ordinary differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 8. What is a partial differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 9. What is the general solution of a differential equation?
- A. The solution that contains all the possible solutions of the equation
- B. The solution that contains all the real solutions of the equation
- C. The solution that contains all the imaginary solutions of the equation
- D. The solution that contains all the trivial solutions of the equation
- 10. What is a particular solution of a differential equation?
- A. The solution that contains all the possible solutions of the equation
- B. The solution that contains all the real solutions of the equation
- C. The solution that contains all the imaginary solutions of the equation
- D. The solution that contains all the trivial solutions of the equation
- 11. What is a homogeneous differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 12. What is a nonhomogeneous differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral

- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 13. What is the order of a differential equation?
- A. The highest derivative in the equation
- B. The highest power of the independent variable in the equation
- C. The highest power of the dependent variable in the equation
- D. The highest power of the independent variable in the equation divided by the highest power of the dependent variable in the equation
- 14. What is the degree of a differential equation?
- A. The highest derivative in the equation
- B. The highest power of the independent variable in the equation
- C. The highest power of the dependent variable in the equation
- D. The highest power of the independent variable in the equation divided by the highest power of the dependent variable in the equation
- 15. What is an ordinary differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 16. What is a partial differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 17. What is the general solution of a differential equation?
- A. The solution that contains all the possible solutions of the equation
- B. The solution that contains all the real solutions of the equation
- C. The solution that contains all the imaginary solutions of the equation
- D. The solution that contains all the trivial solutions of the equation
- 18. What is a particular solution of a differential equation?

- A. The solution that contains all the possible solutions of the equation
- B. The solution that contains all the real solutions of the equation
- C. The solution that contains all the imaginary solutions of the equation
- D. The solution that contains all the trivial solutions of the equation
- 19. What is a homogeneous differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals
- 20. What is a nonhomogeneous differential equation?
- A. A differential equation that can be solved using only one derivative
- B. A differential equation that can be solved using only one integral
- C. A differential equation that can be solved using both derivatives and integrals
- D. A differential equation that cannot be solved using derivatives or integrals

## Answer Key:

- 1. A
- 2. C
- 3. C 4. C
- 5 A
- 6. B
- 7. D
- 8. C
- 9. A
- 10. B
- 11. D
- 12. C
- 13. A
- 14. B
- 15. A
- 16. C
- I /. A
- 18. B
- 19. D
- 20. C