- 1. What is the definition of a partial derivative?
- A. A derivative of a function of two or more variables with respect to one of its variables, holding the other variables constant.
- B. A derivative of a function of two or more variables with respect to all of its variables.
- C. A derivative of a function of one variable with respect to another variable.
- D. A derivative of a function of one variable with respect to all of its variables.
- 2. Which of the following is an example of a partial derivative?
- A. $f(x,y) = x^2 + y^2$
- B. $f(x,y) = x^3 + y^3$
- C. $f(x,y) = x^4 + y^4$
- D. $f(x,y) = x^5 + y^5$
- 3. What is the partial derivative of $f(x,y) = x^2 + y^2$ with respect to x?
- A. 2x
- B. 3x
- C. 4x
- D. 5x
- 4. What is the partial derivative of $f(x,y) = x^3 + y^3$ with respect to y?
- A. 3y
- B. 4y
- C. 5y
- D. 6y
- 5. What is the partial derivative of $f(x,y) = x^4 + y^4$ with respect to x?
- A. 4x
- B. 5x
- C. 6x
- D. 7x
- 6. What is the partial derivative of $f(x,y) = x^5 + y^5$ with respect to y?
- A. 5y
- B. 6y

C. 7y
D. 8y
7. What is the partial derivative of $f(x,y) = x^2 + y^2$ with respect to y?
A. 2y
B. 3y
C. 4y
D. 5y
8. What is the partial derivative of $f(x,y) = x^3 + y^3$ with respect to x ?
A. 3x
B. 4x
C. 5x
D. 6x
9. What is the partial derivative of $f(x,y) = x^4 + y^4$ with respect to y?
A. 4y
В. 5у
C. 6y
D. 7y
10. What is the partial derivative of $f(x,y) = x^5 + y^5$ with respect to x?
A. 5x
B. 6x
C. 7x
D. 8x
Answer Key:
1. A
2. A
3. A
4. A
5. A
6. A

- 7. A
- 8. A
- 9. A
- 10. A