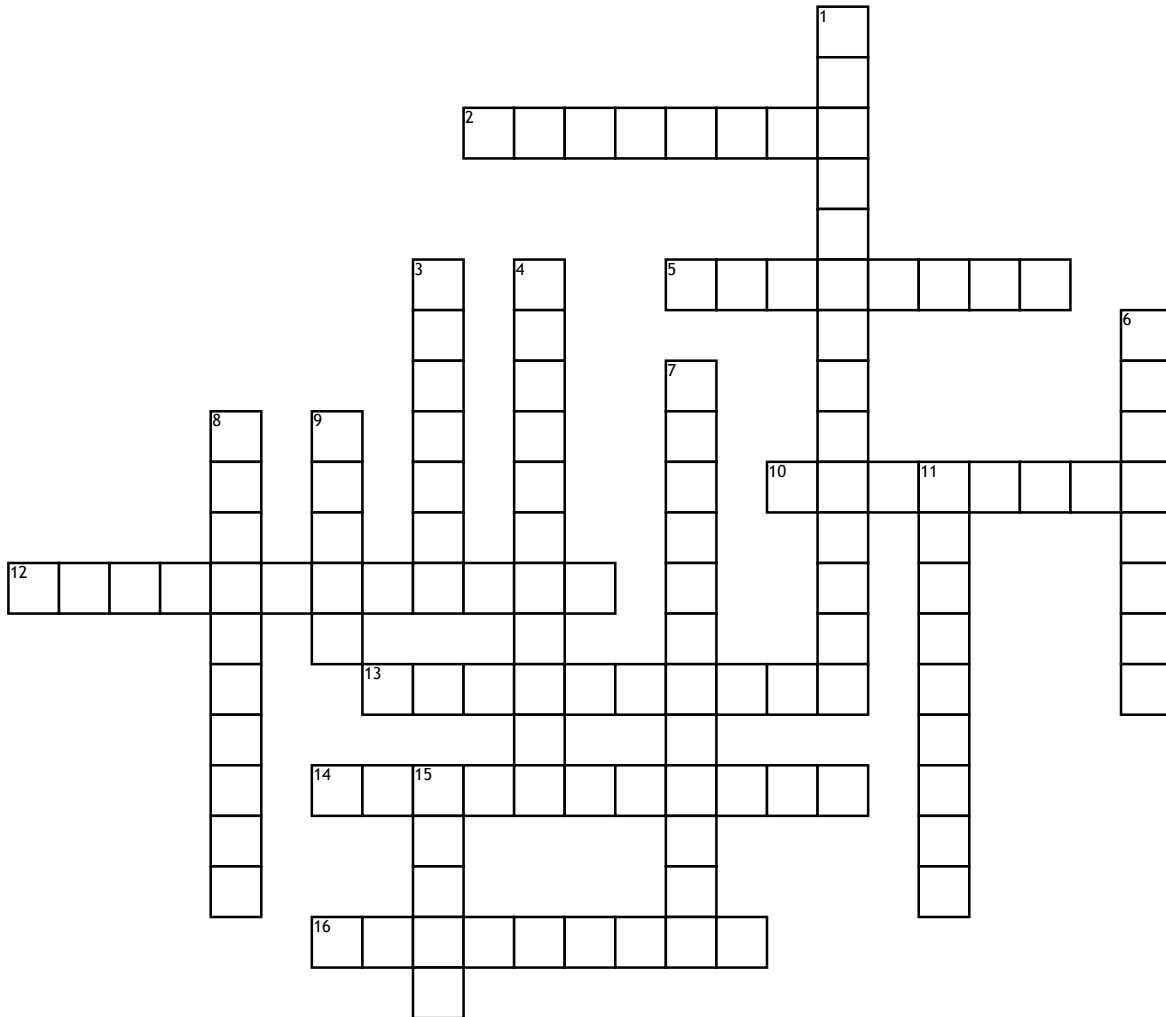


# Integral Calculus



## Across

2. A function that does not change and has a derivative of zero
5. What convergence test is used for positive series with decreasing terms?
10. The branch of mathematics dealing with limits, derivatives, definite integrals, indefinite integrals, and power series
12. What type of equation shows a relationship between a function and its derivative?
13. What is  $2x+3$  in relation to  $x^2+3x$ ?

14. \_\_\_\_\_ function is a function of the form of  $f(x)=ab^x$
16.  $\int f(x)dx=F(x)+C$ , In this notation,  $f(x)$  is called the \_\_\_\_\_

## Down

1. The  $F$  of  $F'$ , is called \_\_\_\_\_
3. \_\_\_\_\_ rule to differentiate a function that contains multiplication of 2 other functions
4. The process of finding a function, given its derivative, is called \_\_\_\_\_
6.  $F(x) + C$ , where  $C$  is \_\_\_\_\_

7. Finding the function and its derivative in an integral problem
8. \_\_\_\_\_ integration, also known as antidifferentiation, is the reversing of the process of differentiation
9. What type of series represents a function as a polynomial that goes on forever?
11. What method is used for finding the derivative of a composition of functions?
15. Integrating by \_\_\_\_\_ is a process that finds the integral of a product of functions in terms of the integral of the product of their derivative