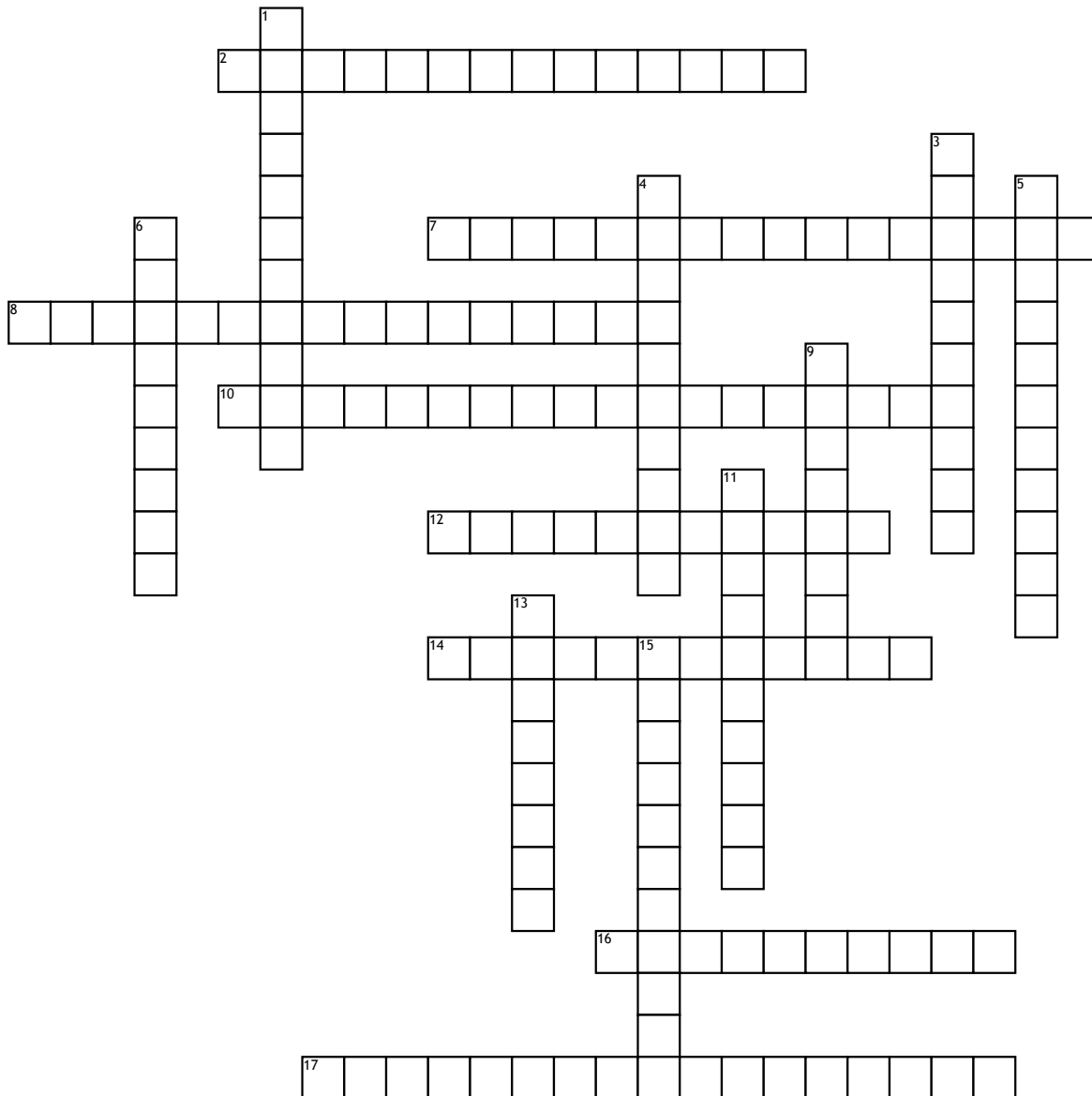


Calculus



Across

2. The test used to see if a number is a max, min, or neither
7. the maximum number of a certain object in a logistic equation
8. If f is continuous on $[a,b]$ and differentiable on (a,b) , then there is a number c in (a,b) such that $f'(c) = \frac{f(b)-f(a)}{b-a}$
10. $uv - \int v du$
12. When the y -value is greater than or equal to all the other y -values in the function

14. The net change in position

16. dy/dx

17. The graph changes concavity at this point

Down

1. The line that represents the slope at a certain point on a function
3. when $f'(x) > 0$, $f(x)$ is _____
4. A way of approximating a definite integral by adding up areas of rectangles
5. The test that can prove if a series diverges but not if it converges

6. A sequence is _____ if it is nonincreasing/nondecreasing

9. If a quantity is changing it must be represented with a _____

11. when $f'(x) < 0$, $f(x)$ is _____

13. Derivative of $\csc x$

15. When the y -value is less than or equal to all the other y -values in the function