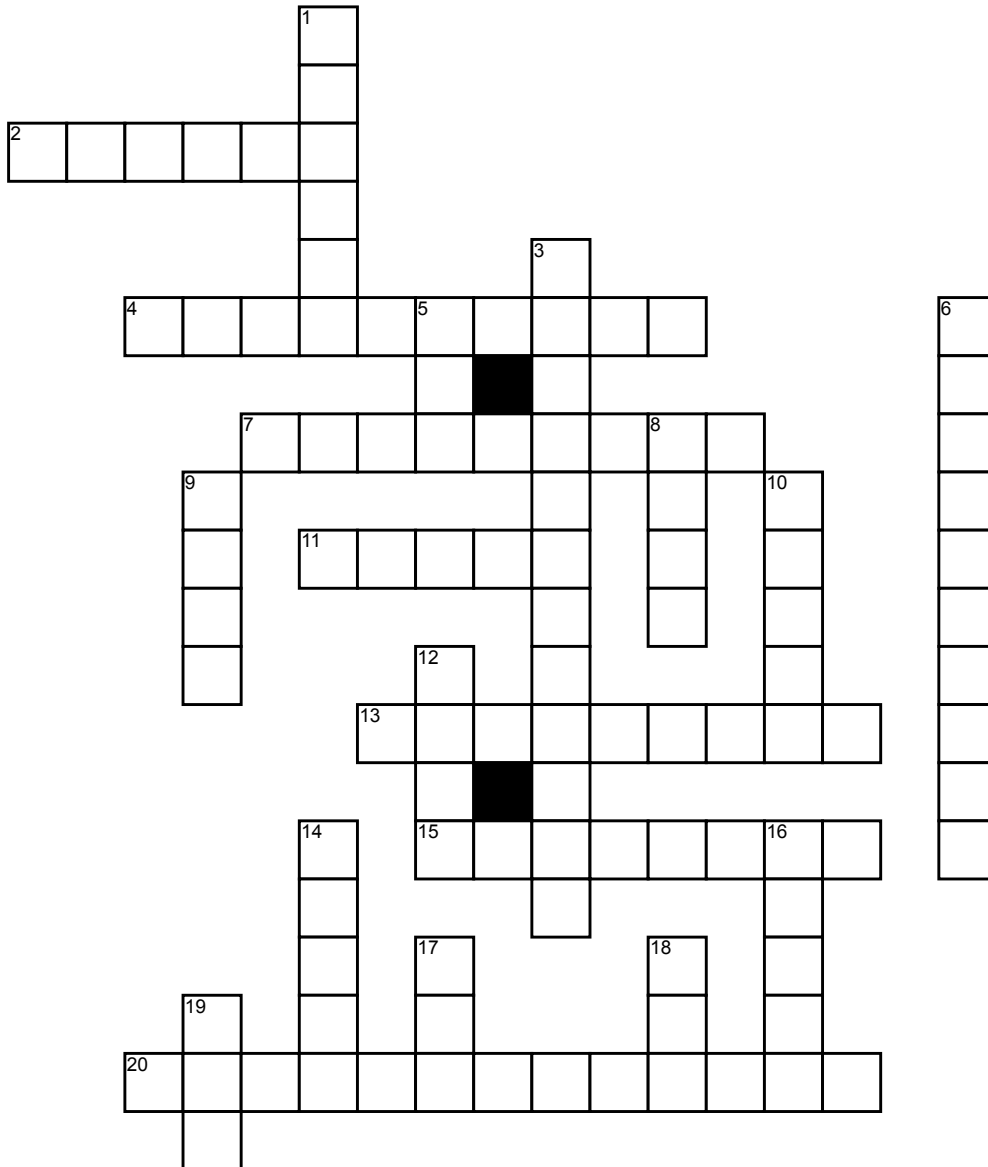


Name: _____

Basic Calculus



Across

2. it is _____ if the limit of function x as x approaches c exists

4. functions that are continuous everywhere

7. any number divided by zero

11. the value that a function or sequence "approaches" as the input or index approaches some value.

13. it is said to be _____ because the continuity may be removed by redefining $f(c)$

15. limits wherein either of the two limits of a function $f(x)$ of a real variable x as x approaches a specified point either from below or from above.

20. when the limit does not exist, it is also called?

Down

1. the limit of the function $5x-25$ as x approaches nine

3. As x approaches c , the limit of $f(x)$ is L , if the limit from the left exists and the limit from the right exists and both limits are L .

5. limit of function $x-2$ as x approaches 3

6. a function is continuous at c when the conditions are met

8. n th-root of L for positive integers n , and provides that L is greater than 0 when n is _____.

9. the limit of the function $f(x)$ as x approaches four

10. the limit of the function $f(x)$ as x approaches c is _____ to $f(c)$

12. when c is zero, what is the limit of the function x as x approaches c ?

14. the limit of the function $5x+3$ as x approaches 0

16. limit of the function $16/x$ as x approaches 2

17. the limit of the function x as x approaches 1

18. the limit of the function $10/x-2$ as x approaches three

19. the limit of the function $5/x$ as x approaches zero