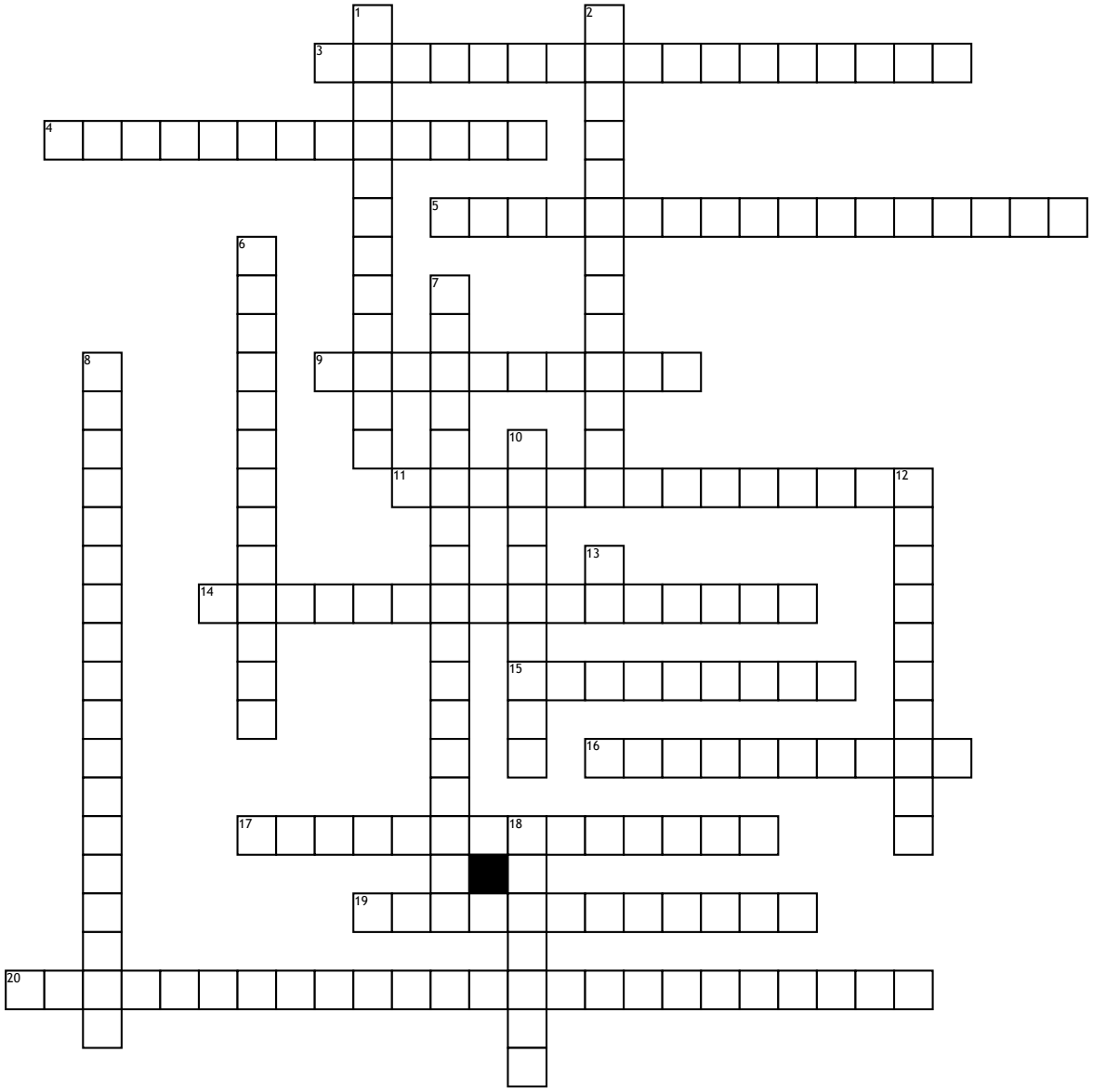
Calculus Crossword



Across

3. _____ implies continuity BUT continuity DOES NOT imply _____

4. Points where f'(x) = 0 or f'(x) = undefined

5. Usually occurs in a piecewise function

9. Notations include:

11. Represents population growth that starts off exponentially but eventually levels off at its carrying capacity

14. Represented by the "L" in this equation: dPdt=kP (1-PL)

15. Could be approximated using the distance formula

16. These conditions must be met:

17. Used after a limit is evaluated and results in an indeterminate form (00, ±±)

19. This type of discontinuity includes vertical asymptotes and jump discontinuities

20. Used to prove that f(x) = 3x2-3x + 1= 0 has at least 1 solution on the interval [0,1]

Down

1. Change in position of a particle over [t1, t2]

2. If _____ ____ are different, the 2-sided limit does not exist.

6. Area under the curve from t=a to t=b

7. Points where f(x) changes concavity

8. Helpful for integrands involving products of algebraic and transcendental functions

10. Used when the limit equals a number0 and therefore does not exist

12. A rational functions end behavior is determined by its _____ asymptote

13. Particle moves ___ when

18. _____ Rate of Change