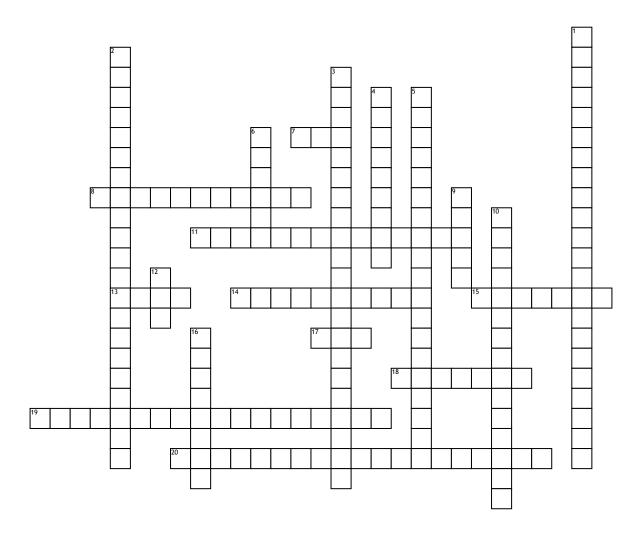
Name: ______ Date: _____

Calculus so far



Across

- 7. (1) must state [a,b] is continuous (2) $f(a) <_L L <_f(g)$ (3) By ____, then there is a value c, such that f(c)=L
- **8.** y f(a) = Mtan (x a)
- 11. (first step): State the given (second step): find lim x-> 0 of f(x) and h(x) (third step): Therefor by _ _, g(x)=lim h(x) and f(x)
- **13.** Opposite/Hypotenuse
- **14.** line passing through 2 points on a curve
- **15.** Opposite/Adjacent
- 17. Abbreviation for "Does not exist"

- **18.** a rule or other branches of mathematics expressed by symbols or formula.
- **19.** A function, F, is continuous at "a" if $\lim x --> a f(x) = f(a)$.
- **20.** (1) f(a) is undefined (2) $\lim x a f(x) = exists$ (3) $\lim x a f(x) = f(a)$

Down

- 1. A function f is continuous on an interval I, if it is continuous at all points of I. If I has continuous endpoints, continuity on I leans right or left continuous at endpoints. ri
- **2.** determined by computing average velocities over intervals that decrease in length

- 3. A function f is continuous from the left at a if $\lim x --> a - f(x) = f(a)$, same with right
- **4.** Best Honors Calculus teacher at
- 5. on [a,x]= Msec= (f(x) f(a)) / (x a)
- 6. Adjacent/Hypotenuse
- **9.** a unique number for which the average velocities approach as T1--> T0
- **10.** change in position/change in time
- 12. Abbreviation for "undefined"
- **16.** a rule that assigns to each value X in a set D a unique value denoted f(x).