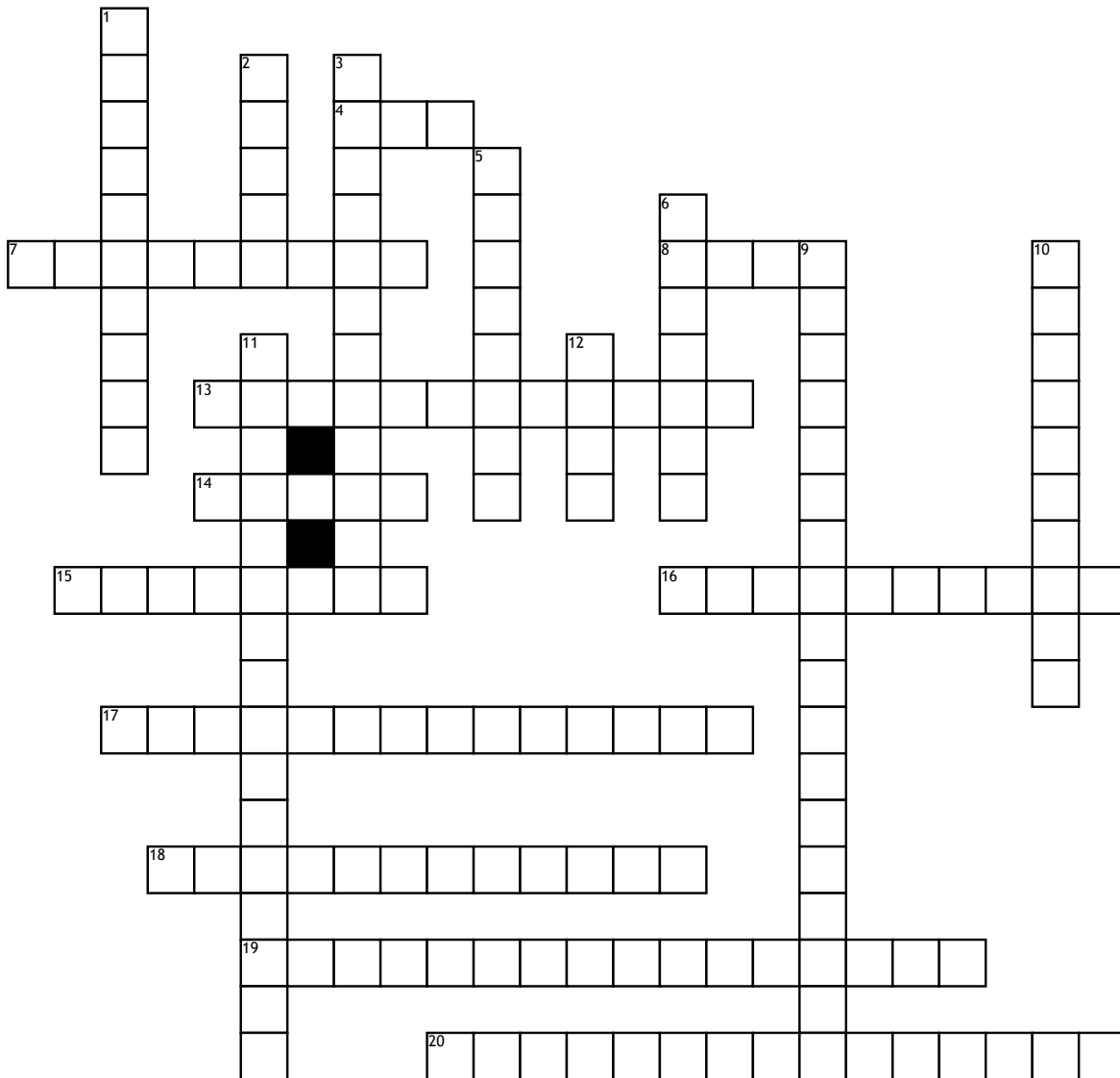


It's not AP calculME... It's AP calculUS!



Across

- 4. the derivative of sin
- 7. use the _____ when a function is raised to a power
- 8. the first step in solving optimization problems is to _____ carefully
- 13. the lowest point within a given range of a function is the function's _____
- 14. the value a function approaches as an input approaches a given value is a _____
- 15. the _____ rule is used to find the derivative of one function divided by another

- 16. if a variable is raised to another variable, take the _____ of both sides
- 17. a function does not have to be _____ to be continuous
- 18. the highest point within a given range of a function is the function's _____
- 19. the second derivative is used to find _____
- 20. the first derivative is used to find _____

Down

- 1. the _____ of $7x+8$ is 7
- 2. the _____ rule is used when you bring the exponent to the front and drop the power by one

- 3. _____ is the derivative of a velocity function
- 5. limits can approach any value including positive and negative _____
- 6. the _____ rule is used to find the derivative of two functions multiplied together
- 9. _____ works with all functions with non-zero denominators
- 10. for a function to be differentiable, the function must be _____
- 11. velocity function is the derivative of the _____ function
- 12. related rate problems are solved by differentiating with respect to _____