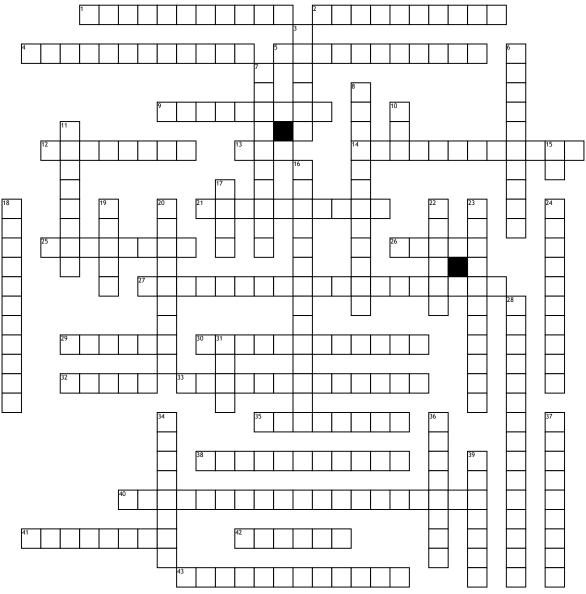
AP CALCULUS VOCABULARY



Across

- 1. The derivative of the product of two functions is: f(x)g'(x) + g(x)f'(x)
- 2. A point at which the curve begins to change concavity point
- 4. The difference in distance between where you start
- and where you stop 5. Used to find the area under a curve via summing up
- 9. When integrating, f(x) is the
- **12.** Term referring to a function in which the highest power appears in the numerator
- 13. (Abbreviated) States that between 2 different values exists a value
- 14. Represents the height of the rectangle at the point (c,f(c))
- 21. Formula for the slope of a tangent line to a function on any point x of that function
- 25. Set of all real numbers between two given numbers
- 26. What happens to y as x gets close to a certain value 27. Inverse process to differentiation
- 29. A line is ____ when it is perpendicular to a function
- 30. The rate of change of velocity is
- 32. Greek symbol which means "change in..."
- 33. This kind of velocity is represented by a tangent line.
- 35. The derivative of position

- 38. d/dx [f(x) * g(x)] = f(x) * g'(x) + g(x) * f'(x)
- **40.** Process used to approximate the tangent line at a certain point
- 41. The type of differentiation used when y is expressed in terms of x
- 42. Used in exchange with the word ABSOLUTE
- 43. The derivative of the quotient of two functions is found using the

Down

- 3. This kind of line joins two points of a curve.
- 6. A function is _ when the y-value increases as the x-value increases
- 7. The slope of the line tangent to a function at any point on the function
- 8. The derivative of cosine
- 10. d/dx[x]=
- 11. The derivative of any constant is 0 this the _____ rule.
- 15. A concave _ _ curve holds water
- 16. Functions such as e^x and ln(x) are 17. The derivative of acceleration is
- 18. The process of taking anti-derivatives
- 19. The absolute value of velocity
- **20.** [f(g(x))]' = f'(g(x)) * g'(x)
- 22. When integrating, a and b are the of integration
- 23. Term referring to a function in which the highest power appears in the denominator

- **24.** A function is this when the y-value decreases as the x-value increases
- 28. The highest point on a function
- 31. When two curves meet at a sharp point
- 34. An integral with limits of integration is considered to
- 36. This differentiation is used when y cannot be
- expressed explicitly in terms of x. **37.** Line or curve which a function approaches without ever actually touching or crossing
- 39. This type of line touches the curve at one point only.