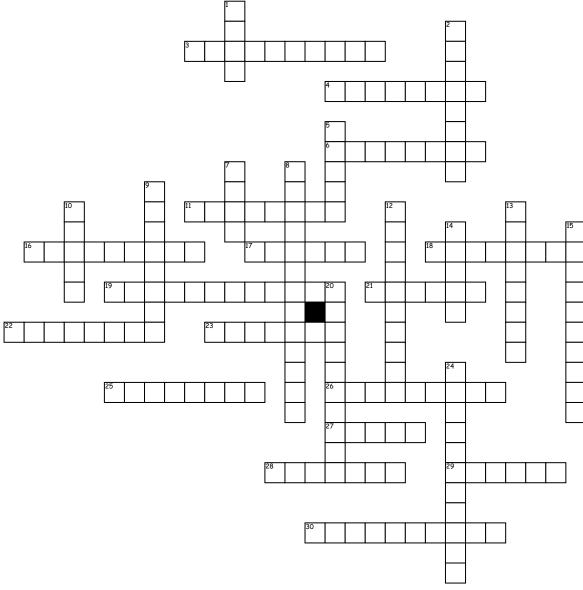
Calculus Crossword Puzzle



Across

- 3. rate of change of a funtion
- 4. limits can approach any value including positive or negative
- 6. rule used when top and bottom equal zero
- 11. Highest or lowest point on the graph;
 ____max/min
- 16. theorem stating if f(x) is defined, continuous, and differentiable on interval [a,b], then there is a c such that a<c<b
- 17. derivative of sin(x)
- 18. integral of velocity
- 19. the derivative of velocity
- 21. method of finding volume by subtracting the volume of the outer solid minus the value of the inner solid
- 22. ____ rule to differentiate a function composed of a function divided by another function

- 23. ____ rule to differentiate a function that contains multiplication of 2 other functions
- 25. the derivative of position
- 26. A line or curve that a function approaches without ever reaching
- 27. A value that a function approaches as an input approaches some value
- 28. a line that touches a curve at a point without crossing it
- 29. can be found using disk/ washer methods
- 30. a curve that is uninterrupted

Down

- 1. derivative of a constant
- 2. point or points where the derivative equals zero
- 5. How fast a function is increasing or decreasing
- 7. similar method as the washer method
- $\boldsymbol{8}.$ a form of integration using the chain rule in reverse

9	differentiation by separating
variables	, , ,
10 composite fur	rule used to differentiate
12. Estimate rectangles	of the area of a function using
	sses the area under a curve
14 . d/dx (x^1 rule	n) = nx^(n-1) is the
15. Point of _ concavity	; curve changes
,	
20 it a varia	hle is raised to another variable

24. if f''(x) < 0 on a set interval the function

_ on that interval

of both sides

take the