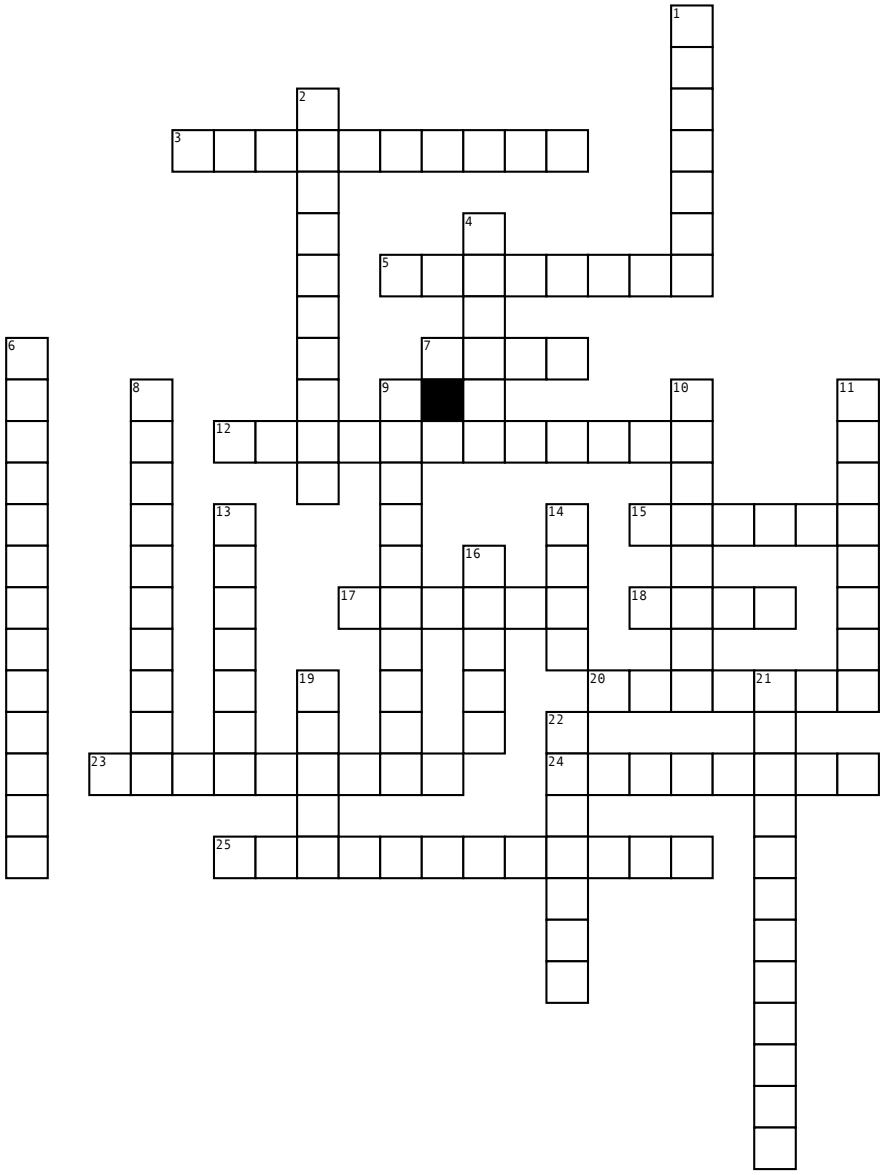
Name: _____ Date: _____ Period: _____

Calculus BC Vocabulary Review



Across

3. if an alternating series converges and the general term converges with another test then the series converges

5. (uv'-vu')/v² is the formula for what derivative rule

7. ∫ f(x)^2dx is the formula for what method of finding volume

12. If f is continuous on a closed interval [a,b], then f has both a max value and min. What theorem is this

15. A polynomial with infinite number of terms, including a general term is a _____ series

17. ∫ (R^2-r^2)dx is the formula for what method of finding volume

18. derivative of cosx (dnt incoude negative)

20. f(b)-f(a)/(b)-(a) is the _____ rate of change formula

23. slope of vertical line

24. The process for finding dy/dx when y is implicitly defined is what type of differentiation

25. If f(1)=-4 and f(6)=9, then there must be a x-value between 1 and 6. This is the _____ valu theorem

Down

1. uv' + vu' is the formula for what derivative rule

2. The limit of f(x) as x approaches a from either direction is equal to f(a), as long as a is in the domain of f(x).

4. derivative of sinx

6. if an alternating series converges and the general term diverges with another test then the series converges

8. When f '(x) changes from increasing to decreasing or decreasing to increasing, f(x) has a point of

9. limit as x approaches a of [f(x)-f(a)]/(x-a)

10. If a particle is moving to the left/down velocity is

11. When f '(x) is +, f(x) will

13. When f '(x) is increasing, f(x) is _____ up

14. slope of horizontal line

16. f '(g(x)) g'(x) is the formula for what derivative rule

19. Y1-y2=m(X1-x2) is the _____ slope formula

21. The derivative of a velocity

22. When f '(x) changes from negative to positive, f(x) has a

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