

## Are You Ready For The Unit 4 Test?

Have you...

1. Completed and UNDERSTOOD all of the JQ?
2. Completed the FTC AP MC questions assignment and you have been over it a couple of times so that you fully UNDERSTAND how to handle questions that give one  $F(a)$  value and ask you to find the other one?
3. Completed the NET CHANGE AP FR questions assignment and you have studied the DETAILED key posted on the website and you fully UNDERSTAND how to set up integrals for net change given a RATE and interpret the meaning of the answer from the integral?
4. Understood how to actually EVALUATE the integral set up for a NET CHANGE question and know when to use: fnInt, RAMS, TRAPS, Antiderivatives (non-calculator), geometric area under a graph?
5. Completed the *Detective's Hat* activity, and understood how to determine the locations of max/min area, POI, concavity, monotonicity of  $g(x)$  when  $g(x) = \int_a^x f'(t) dt$  and you are given the graph of  $f'(t)$ ? Can you verify these locations using *1st Derivative and/or 2nd Derivative* AND verbally using accumulation or gain/loss of area under  $f'(t)$ ?

6. Practiced a TON of anti-differentiation and U-Substitution questions including changing  $x$ -limits to  $u$ -limits? Also...when and how to split up an integral into 2 or more integrals, when to reverse the limits, and know the difference between PHYSICAL and NET area?
7. Completed and UNDERSTOOD the Review III MC questions on velocity, displacement, distance, and acceleration?
8. Reviewed the "facts" from Unit 3 regarding derivatives and local max/min, concavity, etc. AND the "facts" regarding Linear Motion?

If you answered YES to each of the above questions, then you are ready for the Unit 4 Test.....guaranteed !!!!.... 

So....stop.... 

...and... creating memes... 

...and start... 