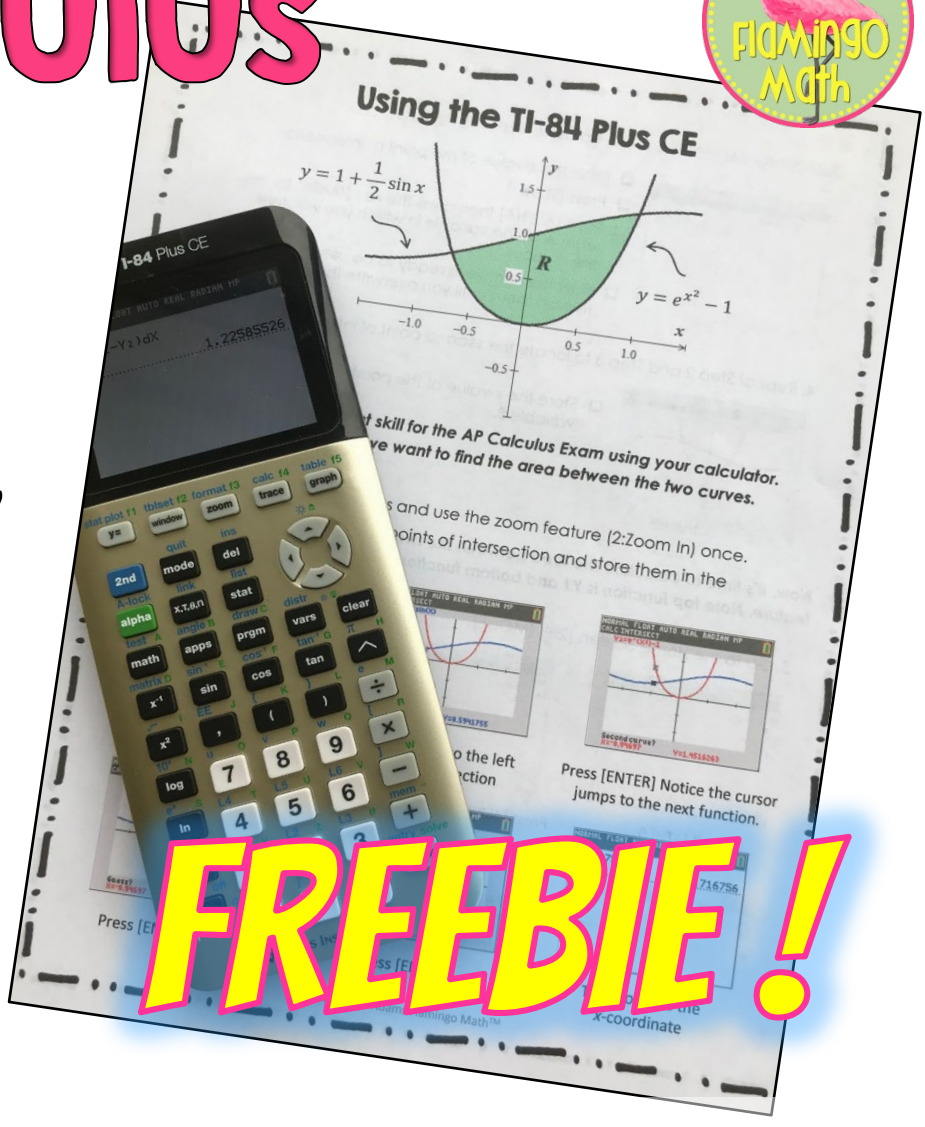
Calculus



TI-84 Plus CE

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TI-84 Plus CE Cheat Sheet

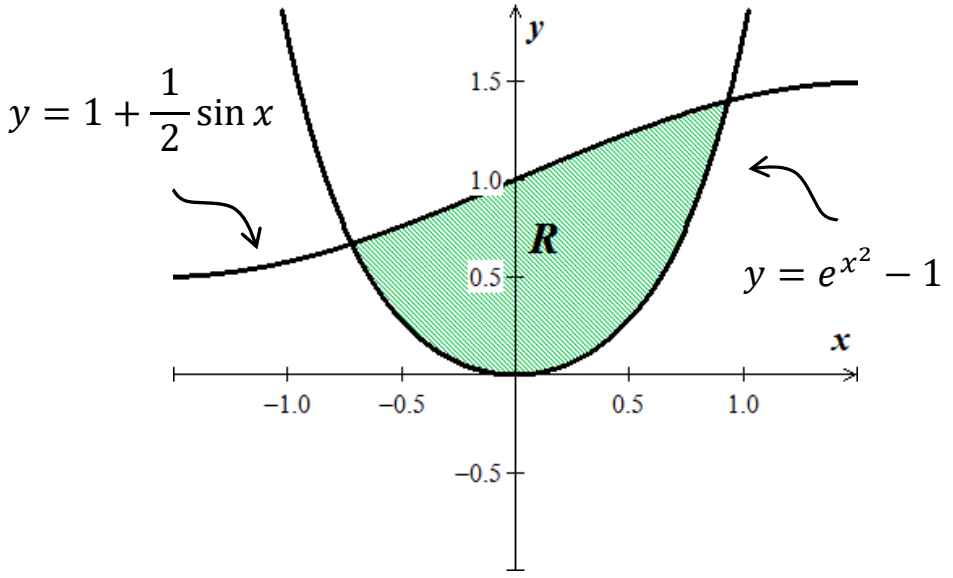
This is a **free TI-84 Plus CE™ Calculator Cheat Sheet** for finding points of intersection, storing values as variables for use in calculations, and integration using the numeric integration feature on the calculator.

TEACHER NOTES: This short instructional page will be a great addition to your AP Calculus students' notebooks. Students will learn to use these valuable techniques for reducing their time on the AP Exam calculator prompt questions. This is just one of the four skills that they must master.

You might also be interested in the FREEBIE Just 4 Things which will help your students practice their techniques.

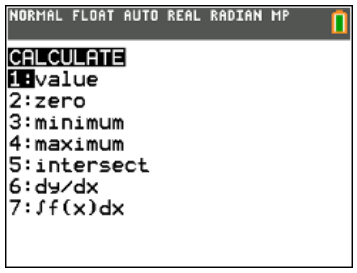
Be sure to visit my store for more engaging activities and lessons.

Using the TI-84 Plus CE

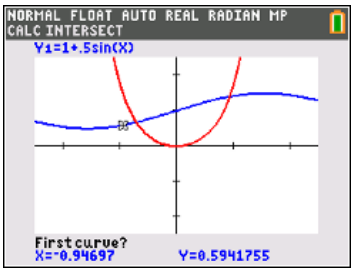


Let's review an important skill for the AP Calculus Exam using your calculator. Given the graph above, we want to find the area between the two curves. Let's Go!

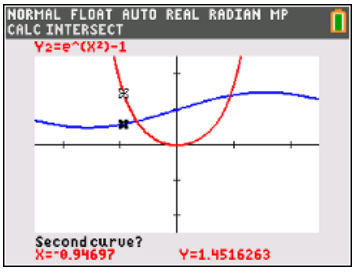
1. Graph the two equations and use the zoom feature (2:Zoom In) once.
2. Our first task is to find the points of intersection and store them in the calculator.



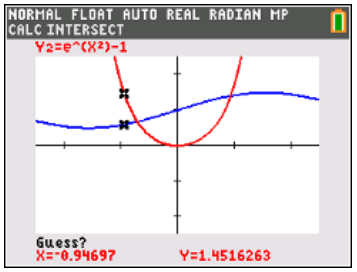
Press 2nd [Trace] 5:



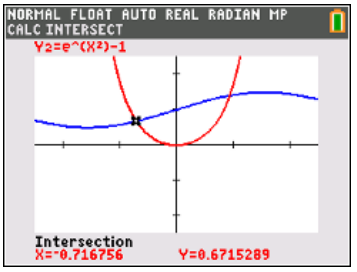
Move cursor to the left of the intersection



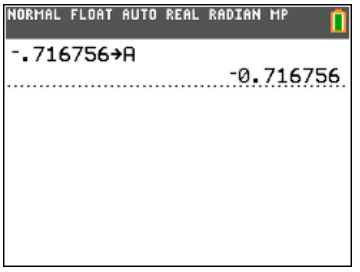
Press [ENTER] Notice the cursor jumps to the next function.



Press [ENTER] Guess?

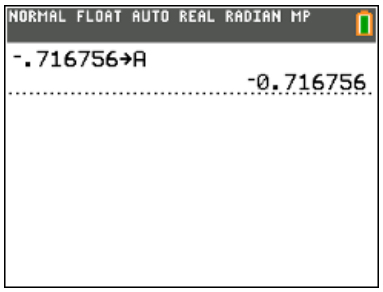


Press [ENTER]



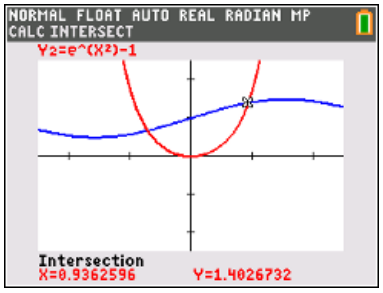
Time to store the *x*-coordinate

3. STORING VALUES. Go to the Home Screen [2nd] [MODE].



- ❑ Enter the x-value of the point of intersection
- ❑ Press [STO►]
- ❑ Press [ALPHA] then press the key [MATH] for the letter ***A*** as the variable in which you will store the number.
- ❑ Now the number is ready to be used. It will remain there until you overwrite the variable.

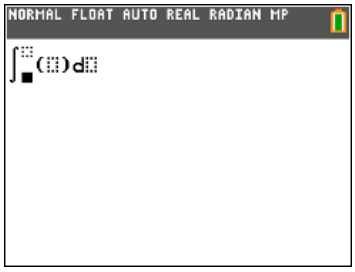
4. Repeat Step 2 and Step 3 to locate the second point of intersection.



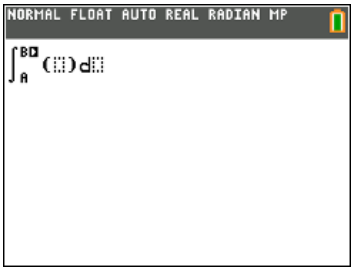
- ❑ Store the x-value of the point of intersection as variable ***B.***

Now, it's time to calculate the area between the two curves by using the integral feature. Note top function is Y1 and bottom function is Y2.

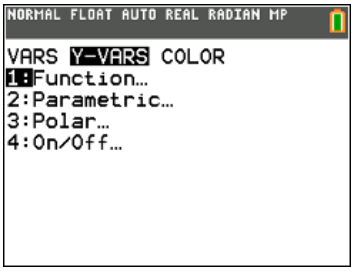
5. Go to the Home Screen [2nd] [MODE].



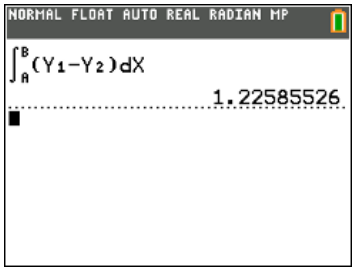
Press [MATH] 9:



Press [ALPHA] A ▲ [ALPHA] B



►Press [VARS] ►1:1 [Y1]



Subtract, and press [VARS] ►1:2 [Y2]
ENTER
Area between the two curves is approximately 1.2258

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