

You must execute the flow chart in this precise order.

If you do not, the results may be incorrect.

NOTE that finding antiderivatives is the LAST choice of action.

<u>CRITERION</u>	<u>IF ANSWER IS “YES”</u>
1. Does the function have a discontinuity at any point in the interval ?	Identify location of discontinuity and specify that FTC2 cannot be used to evaluate the integral
2. Are the limits opposites ?	
a. Is the integrand odd ?	The integral is 0
b. Is the integrand a sum of terms (or can it be written as a sum of terms), some of which are odd ?	Write the integral as the sum of an integral of the odd terms and an integral of the remaining terms; apply 2a to the first integral and evaluate the second integral using the steps below
3. Do any terms of the integrand correspond to a line, or a quarter- or half-circle over the interval ?	Write the integral as the sum of an integral of those linear/circle terms and an integral of the remaining terms; use formulae for areas of rectangles, triangles, trapezoids, quarter- or half-circles to evaluate the first integral and evaluate the second integral using the steps below
4.	Evaluate all remaining integrals using FTC Part 2 (ie. find the antiderivative of the integrand, substitute the limits of integration and find the difference)