1. A farmer has a rectangular pasture that is to be enclosed with a fence and divided into two equal parts by another fence that is parallel to one of the sides. What **dimensions** for the outer rectangle will require the smallest total length of fence. **How much** fence will be needed?
2. What are the **dimensions** of an open rectangular box with maximum volume that can be made from a 12 inch by 25 inch piece of aluminum by removing congruent squares from the corners and folding up the sides? What is the **volume** of that box?
3. What is the Mean Value Theorem? How do you use it?
4. Given on
   1. Find the values that meet the EVT
   2. Find the values that meet the MVT
5. Plot with everything!
6. Find the limits
   1. What are the 7 indeterminate forms?
   2. What should you always do first? What is the “key” that needs to be shown?
7. Given and find .
8. Is there only one antiderivative for a given function? Explain.
9. What is an Integral?
10. What is the FTC?
11. Find the Integral:
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