\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PART 2

1. State the intervals where is increasing or decreasing.

2. Determine the relative extrema of .

3. Determine the concavity of . Identify any points of inflection.

4. Determine the absolute extrema of  over .

FIND EACH ANTIDERIVATIVE.

5. 

6. 

7. 

EVALUATE.

8. 

9. Find the area between the graph of  and the x-axis over [1, 5].

10. Find the area between the graphs of  and  over [ 0, 3 ].

11. Solve  when  .