1. A. On what interval is increasing?

B. On what interval is the graph of concave up?

C. At what x-values does have local extrema?

D. What are the x-values of all inflection points of the graph of?

E. Sketch a possible graph of .

1. A. Find the x-coordinates of all local extrema and points of inflection of .



B. Sketch a possible graph of .

1. Identify where the extrema of occurs.



1. Find the intervals on which is increasing and decreasing.
2. Find where the graph of is concave up and concave down.

Sketch a possible graph for .