Curve Sketching Stewart Book Review

**p. 239**

Verify that the function satisfies the hypotheses of the Mean Value Theorem on the given interval. Then find all the numbers c that satisfy the conclusion of the Mean Value Theorem.

11. , [-1, 1] 13. , [0, 1]

**p.248**

The graph of the derivative of the continuous function is shown.

1. On what intervals is increasing or decreasing?
2. At what values of x does have a local extrema?
3. On what interval is concave upward or downward?
4. State the x-coordinate(s) of the point(s) of inflection.
5. Assuming that , sketch a graph of .



**p.262**

Sketch the graph of a function that satisfies all of the given conditions.

51.

**p. 309**

Find the local and absolute extreme values of the function on the given interval.

6. [0, π ]

Sketch the graph of a function that satisfies the given conditions.



16. The figure shows the graph of the derivative of a function .

1. On what intervals is increasing or decreasing?
2. For what values of x does f have a local extrema?
3. Sketch the graph of.
4. Sketch the graph of .

Sketch the curve.

17. 18. 19.