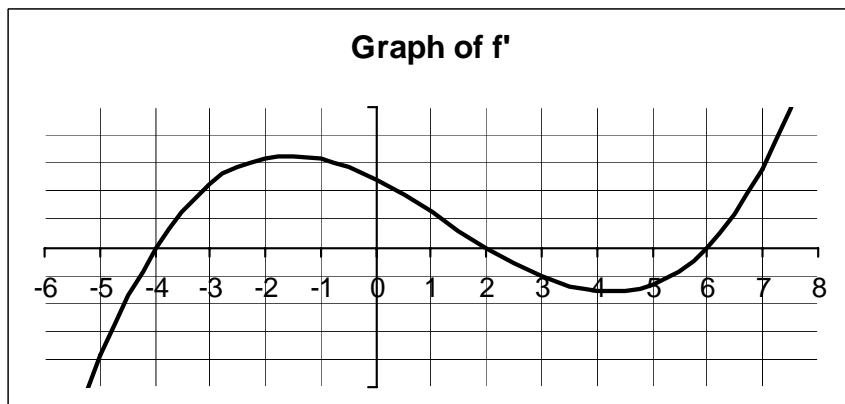


The graph to the right is the graph of f' , the *derivative* of a function f . Note that the graph of f is not shown.

If the function f is defined for all x , use this graph to answer the following questions.



1. On what interval(s) is the function f increasing?
2. On what interval(s) is the function f decreasing?
3. At what value(s) of x , if any, does f have a local maximum?
4. At what value(s) of x , if any, does f have a local minimum?
5. On what interval(s) is the function f concave upward?
6. On what interval(s) is the function f concave downward?
7. At what value(s) of x does f have an inflection point?

Suppose it is also known that f goes through the point $(0,0)$. Based on all of the above information, sketch a possible graph of the function f .

