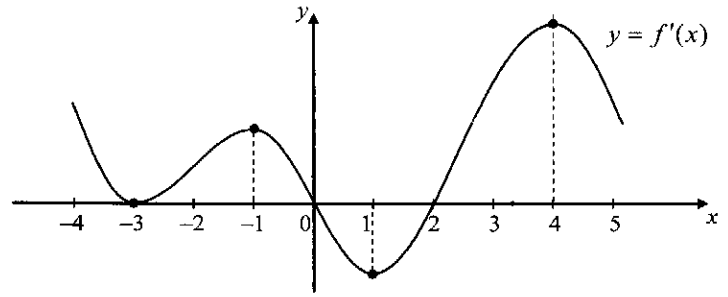


AB CalcLog 3.1

The figure to the right shows the graph of f' , the derivative of the function f for $-4 \leq x \leq 5$. The graph of f' has horizontal tangent lines at $x = -3, -1, 1,$ and 4 .



- Find all values of x , for $-4 < x < 5$, for which f is decreasing. Justify your answer.
- Find all values of x , for $-4 < x < 5$, at which f attains a relative maximum. Justify your answer.
- Find all values of x , for $-4 < x < 5$, for which the graph of f is concave up.
- Given $f(-4) = -2$, $f(0) = 5$, and $f(5) = 8$, sketch a possible graph of f on the axes to the right.

