



The figure above shows the graph of f' , the derivative of a function f . The domain of f is the set of all real numbers x such that $-10 \leq x \leq 10$.

- (a) For what values of x does the graph of f have a horizontal tangent? Justify your answer.
- (b) For what values of x in the interval $(-10, 10)$ does f have a relative maximum? Justify your answer.
- (c) For what values of x is the graph of f concave downward? Justify your answer.