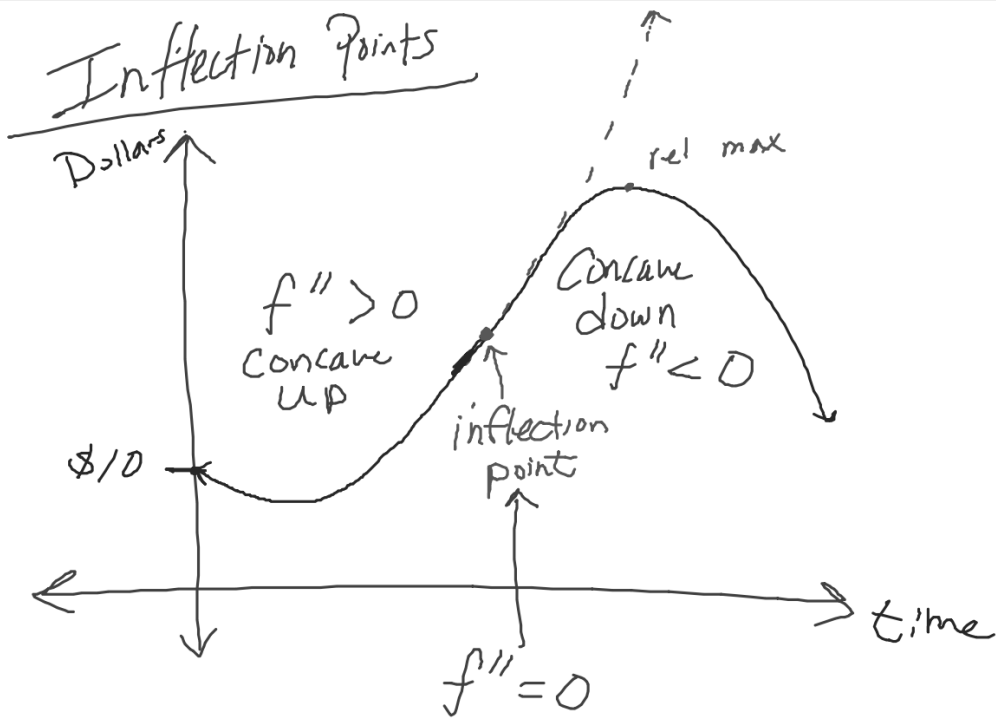
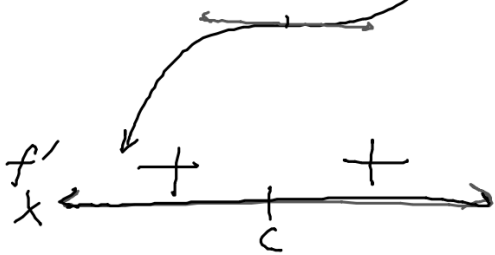


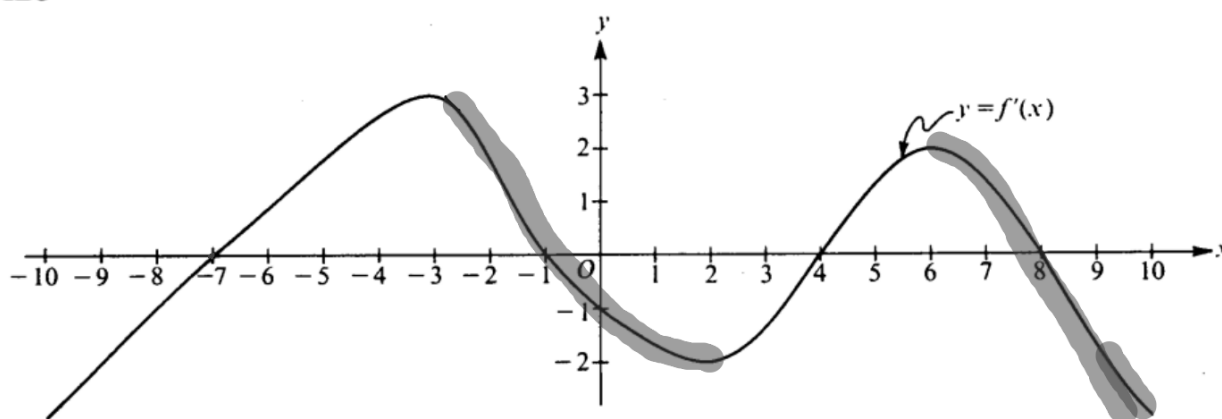
Inflection Points



c is a critical number
but not a rel. max/min.



1989 AB5



Note: This is the graph of the derivative of f , not the graph of f .

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? $f' = 0$.
 $x = -7, 4, 8, -1$.
- (b) For what values of x in the interval $(-10, 10)$ does f have a relative maximum?
Justify your answer. $x = -1, x = 8$ b/c f' changes from pos. to neg.
- (c) For values of x is the graph of f concave downward?
what $(-3, 2) \cup (6, 10)$. b/c f'' is negative.

