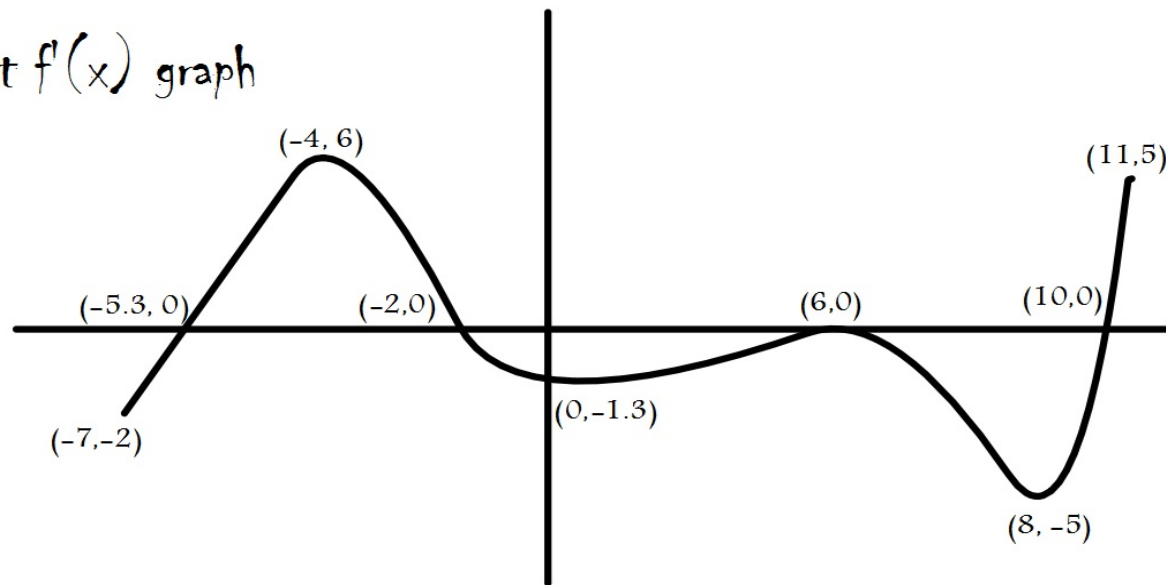


Your first $f'(x)$ graph



- A. What is the value of $f'(-4)$? $f'(0)$? $f'(8)$?
- B. At $x = -7$, is the original graph going up (increasing) or going down (decreasing)?
At $x = 11$, is the original graph increasing or decreasing?
At $x = -2$, is the original graph increasing or decreasing?
- C. Based on this graph, when is the original function increasing?
- D. When is the original function decreasing?
- E. When does the original graph have Zero slope? (it's not increasing or decreasing)
- F. Remember that there exists a relative maximum when $f'(x)$ changes from positive to negative. Can you tell where there would be a relative maximum on this graph?
- G. Using the same reasoning above, where is there a relative minimum? (there are 2 x values)
- H. Concavity. Remember that concavity is the SLOPE of the first derivative. Can you tell where the original graph is concave up?