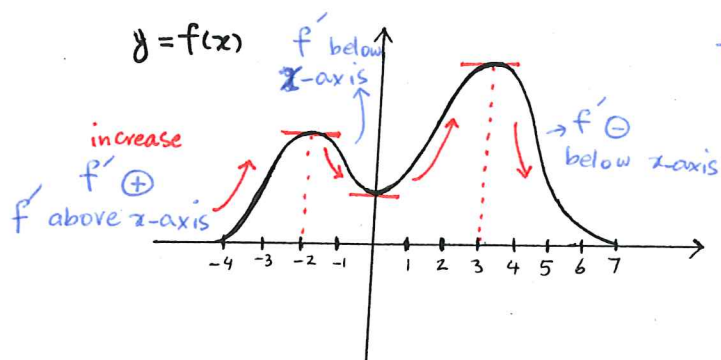


Test Your Understanding .

→ From f to f' :

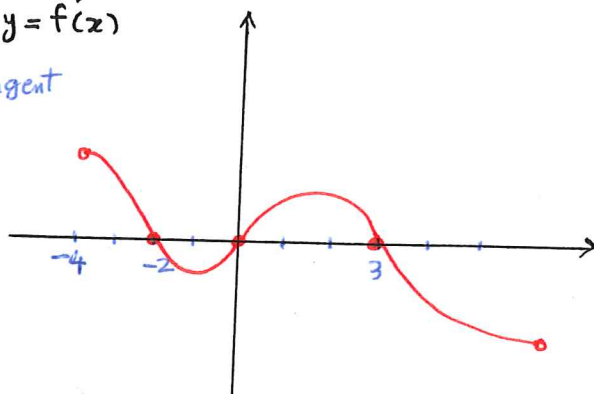
- The graph of f is given below. Sketch the graph of f' .



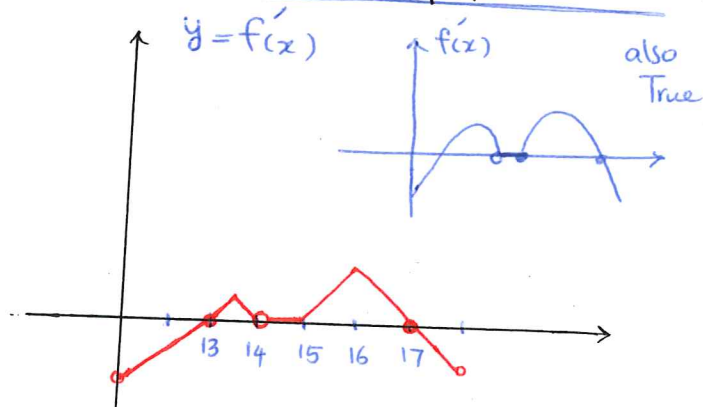
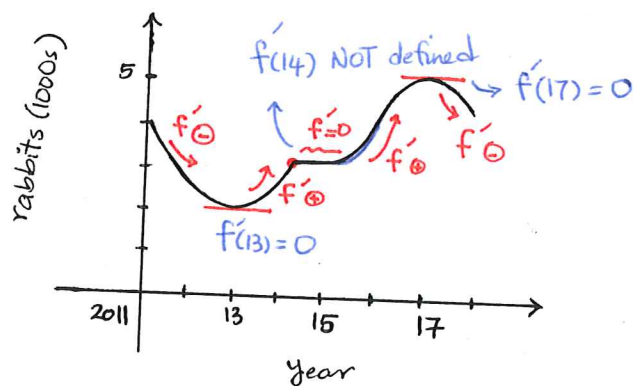
from f to f' $y=f'(x)$

track the tangent line

f' is 0 at $x=-2, 0, 3$

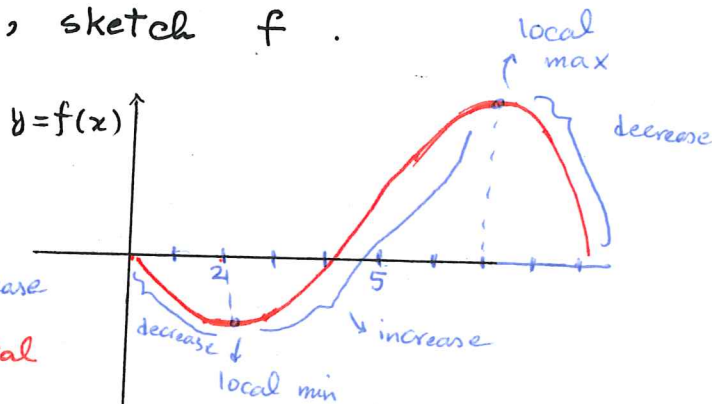
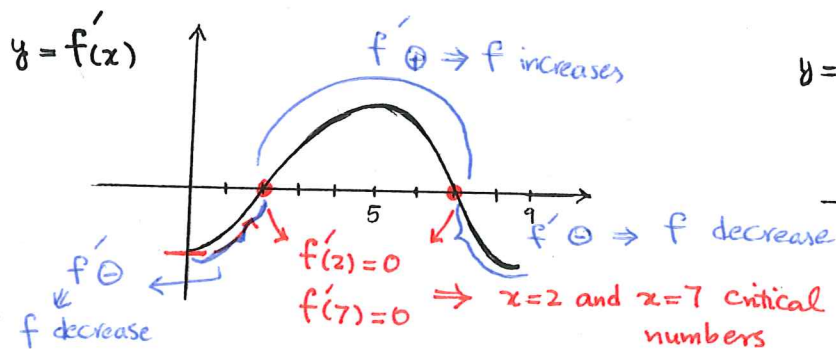


- The following graph shows the population of rabbits on an island during 6 years. Sketch the graph of the rate of population change.



← From f' to f

- The graph of f' is given below, sketch f .



- List the critical numbers of f . $x=2, x=7$

- Which of them are local min and max.

before $x=2$ f' is $\ominus$, after 2 f' is $\oplus$ then after 7 f' becomes $\ominus$

decrease $\nearrow$ local min $\nearrow$ increase $\nearrow$ local max $\searrow$ decrease.