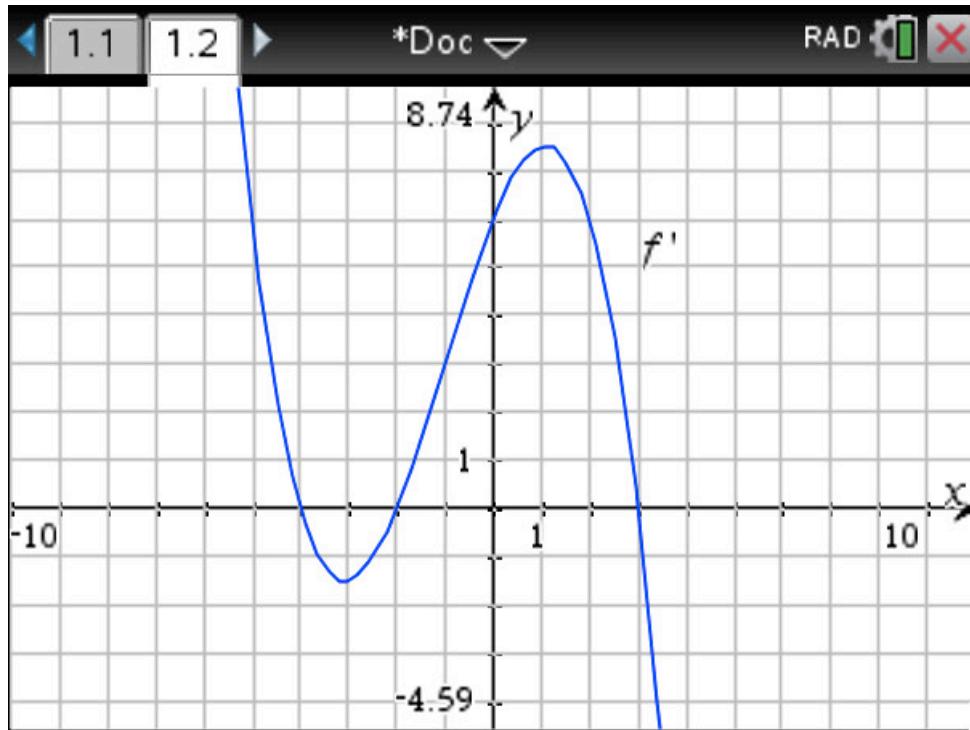


**Exercise 1**

Calc. : ✓

The figure represents the graph of a derivate function  $f'$  of a function  $f$ .



1. Give the  $x$ -coordinates of the extrema of  $f$  and state their nature. 6 marks
2. From the graph of  $f'$  find the slope of the tangent to the graph of  $f$  at  $x = -1$ . 2 marks
3. Find the solutions for  $f'(x) = 6$ . 3 marks
4. The graph of function  $f$  passes through point  $P(0, 1)$ . Find the equation of the tangent to the graph of  $f$  at point  $P$ . 4 marks