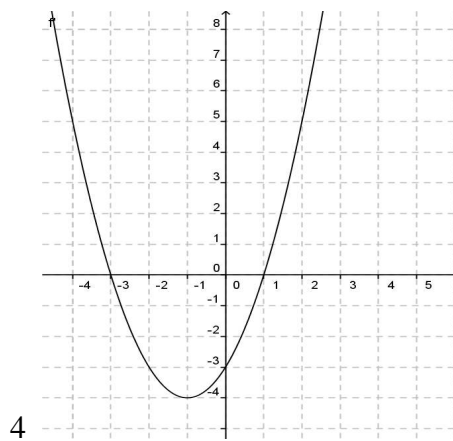
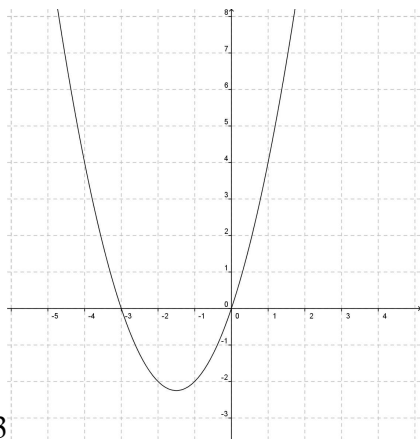
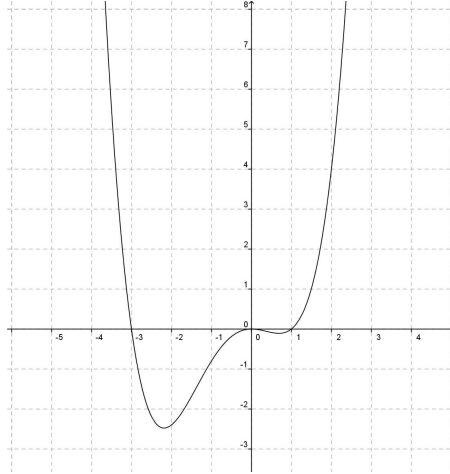
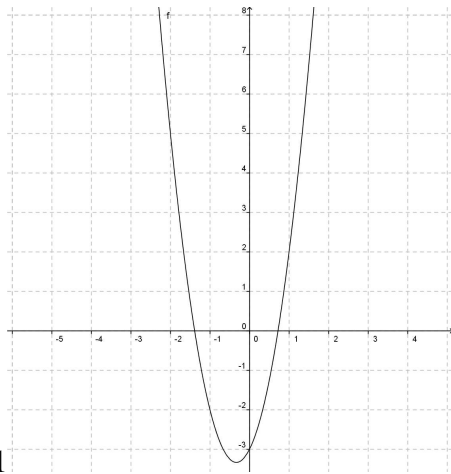
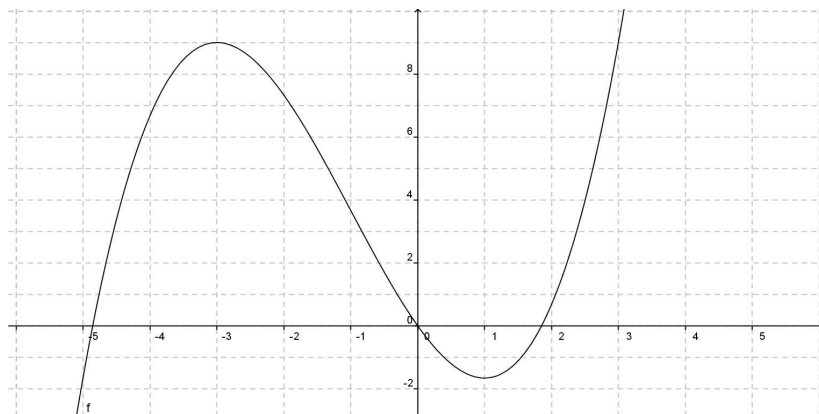


**Subject n°21**

**Please don't write on the exam paper.**



1) One of the curves above represents the derivative of the function  $f$ , whose curve is represented below:



Which one? Justify.

2) Use the graph to find  $f(-3)$ ,  $f'(1)$  and  $f'(0)$ .

3) Suppose that  $f : x \rightarrow ax^3 + bx^2 + cx$ . Find  $a$ ,  $b$ ,  $c$  using the previous results.

4) Knowing now the derivative of function  $f$ , justify the choice of question 1).

