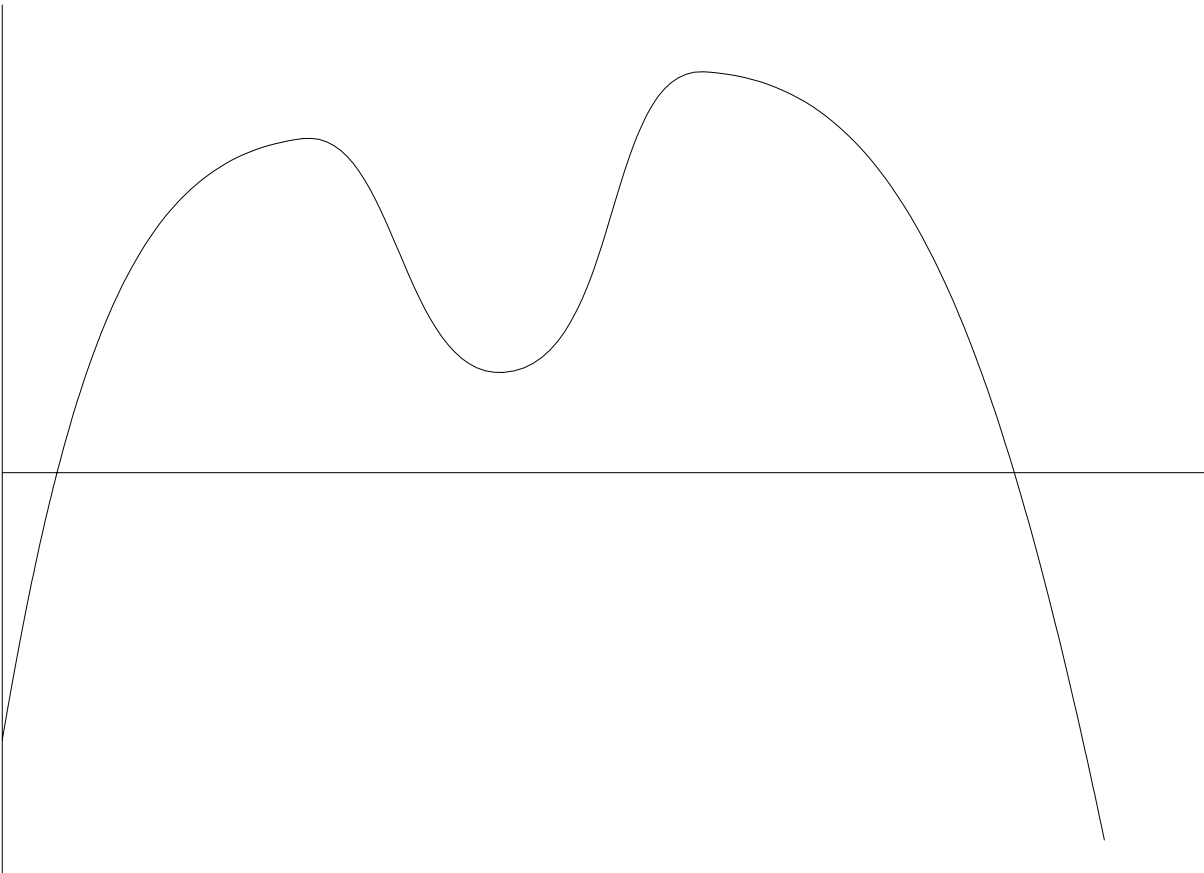


## Mathematics 122

### Quiz #9

Name: \_\_\_\_\_

(1) Draw the graph of the derivative of the function below on the same axis.



(2) Draw the graph of a function  $f(x)$  with

- $f(2) = 3$ ,  $f(4) = -1$ ,  $f(5) = 1$ .
- $f'(x) < 0$  when  $2 < x < 4$  or  $5 < x$ ,
- $f'(x) > 0$  when  $x < 2$  or  $4 < x < 5$ .