

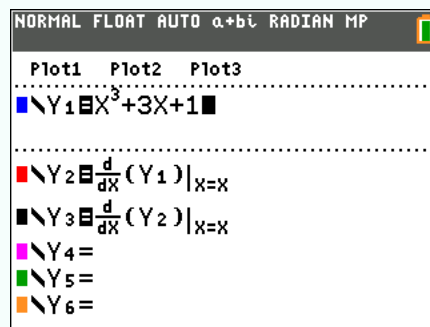
## 5.10 Second derivative

### 5.10.1 Graph the second derivative of a function

Suppose you want to graph the second derivative of the following function:

$$f(x) = x^2 + 3x + 1$$

To do this, proceed as in 5.3.2, but do it twice:



$Y_3$  is then the graph of  $f''(x)$ . You can thus know when  $f''(x) < 0$  or  $f''(x) > 0$  by looking at its graph.

Tip: deactivate the graphs you don't want for better readability by highlighting the  $=$  sign in front of the function you wish to deactivate and pressing enter (it should become  $=$ ).