

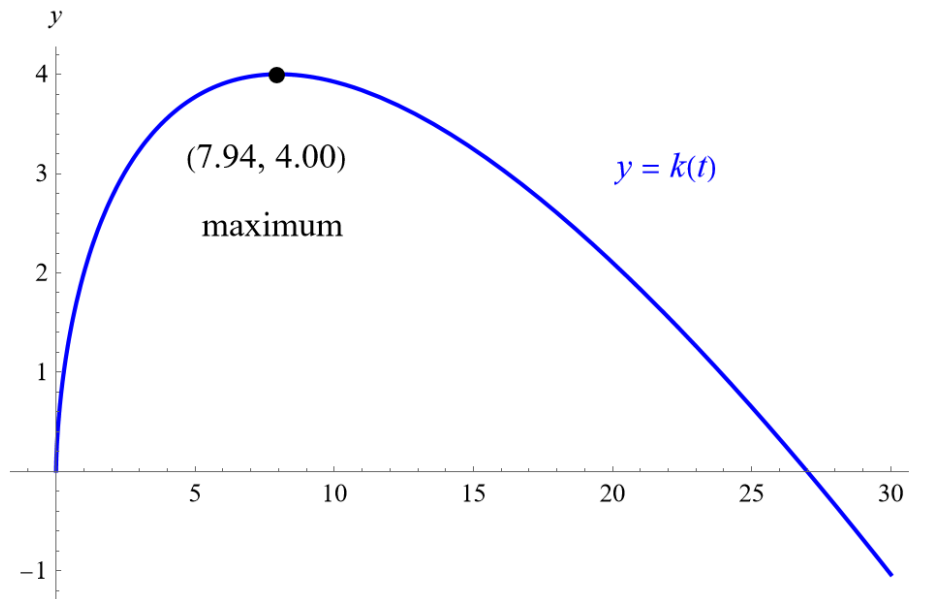
## Exercise 38

For the following exercises, use a graphing utility to estimate the local extrema of each function and to estimate the intervals on which the function is increasing and decreasing.

$$k(t) = 3t^{2/3} - t$$

### Solution

Below is a graph of  $k(t)$  versus  $t$ .



The function is decreasing on  $(7.94, \infty)$ , and the function is increasing on  $[0, 7.94)$ .