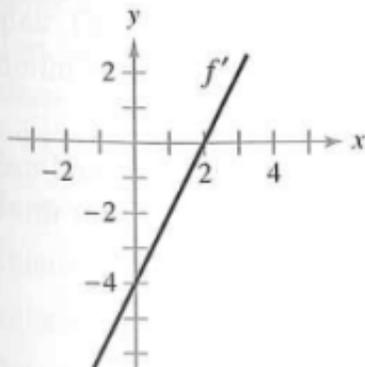


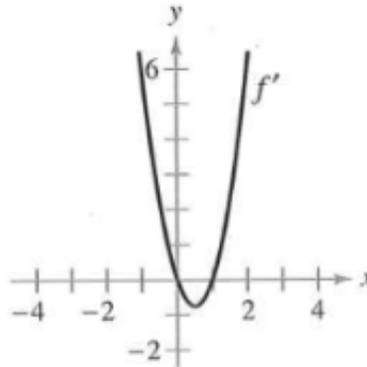
The deadline for all homework assignments is the one specified in Archie before 11:59 pm. As discussed in class, It must be correctly uploaded in order to be graded. Show all your work and justifications.

In Exercises 65–68, use the graph of  $f'$  to (a) identify the interval(s) on which  $f$  is increasing or decreasing, and (b) estimate the value(s) of  $x$  at which  $f$  has a relative maximum or minimum.

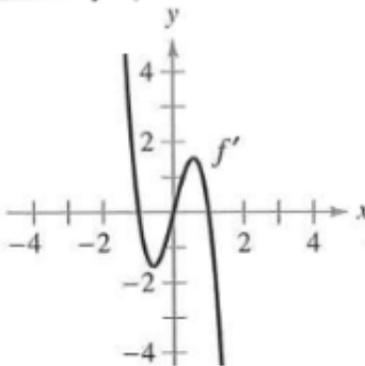
65.



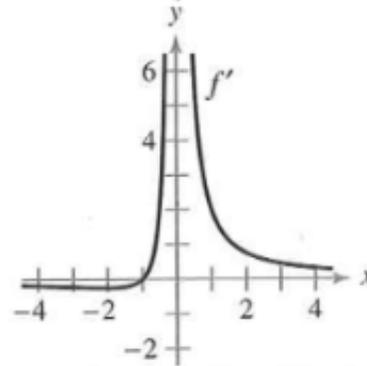
66.



67.

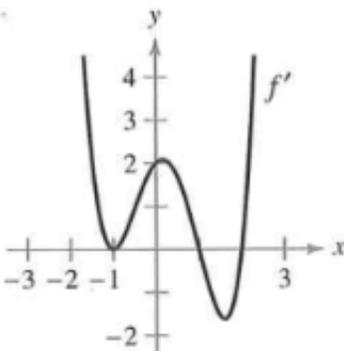


68.



In Exercises 69 and 70, use the graph of  $f'$  to (a) identify the critical numbers of  $f$ , and (b) determine whether  $f$  has a relative maximum, a relative minimum, or neither at each critical number.

69.



70.

