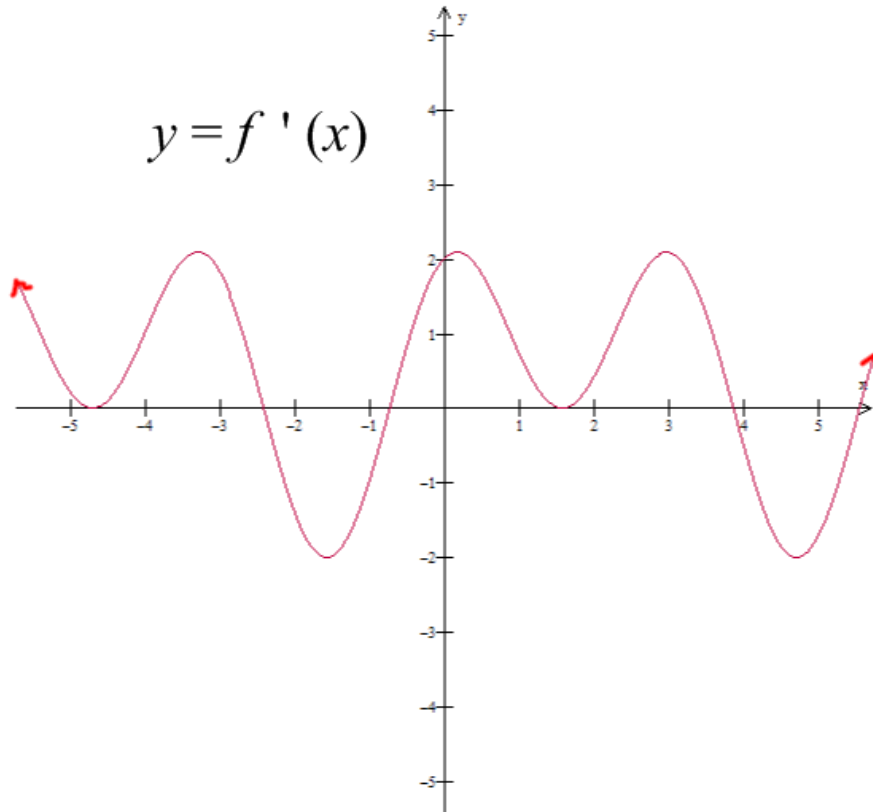


EMCF 21

Log in to CourseWare at <http://www.casa.uh.edu>
and access the answer sheet by clicking on the EMCF tab.

Questions 1-7 refer to the function f .

The graph of the derivative of f is shown below.



1. Give the number of intervals of increase for f .
 - a. 3
 - b. 4
 - c. 5
 - d. 6
 - e. 7
 - f. None of these.

2. Give the number of intervals of decrease for f .
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.
3. Give the number of critical numbers for f .
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.
4. Give the number of local minimums for f .
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.
5. Give the number of local maximums for f .
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.
6. Give the number of intervals of decrease for $f(x) = x^4 - 4x^3 + 4x^2 + 7$.
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.
7. Give the number of intervals of increase for $f(x) = x^4 - 4x^3 + 4x^2 + 7$.
- 0
 - 1
 - 2
 - 3
 - 4
 - None of these.

8. Determine the value of x where $f(x) = x^4 - 4x^3 + 4x^2 + 7$ has an absolute maximum on the interval $[-2,1]$.
- 2
 - 1
 - 0
 - 1
 - 3
 - None of these.
9. Determine the value of x where $f(x) = x^4 - 4x^3 + 4x^2 + 7$ has an absolute minimum on the interval $[-2,1]$.
- 2
 - 1
 - 0
 - 1
 - 3
 - None of these.
10. Determine the absolute maximum value of $f(x) = x^4 - 4x^3 + 4x^2 + 7$ on the interval $[-2,1]$.
- 53
 - 62
 - 71
 - 35
 - 14
 - None of these.