

## Lecture 10: The Mean-Value Theorem

### Problem Set 10

Problems 1-10 are due on 10/10/17.

1. Let  $f$  and  $g$  be functions defined on an interval  $I$ . Suppose  $f$  and  $g$  are differentiable on  $I$ . Prove that if  $f'(x) = g'(x)$  for all  $x$  in  $I$ , then  $f(x) = g(x) + C$  for some constant  $C$ .
2. Let  $f$  be a function defined on an interval  $I$ . Suppose  $f$  is differentiable on  $I$  and  $f'(x) = 0$  for all  $x$  in  $I$ . Prove that  $f$  is constant on  $I$ .
3. Let  $f$  be a function defined on an interval  $I$ . Suppose  $f$  is differentiable on  $I$  and  $f'(x) = 2x$  for all  $x$  in  $I$ . Prove that  $f(x) = x^2 + C$  for some constant  $C$ .

### Problems 11-15

For this problem set, you will be given a function  $f$  defined on an interval  $I$ . You will be asked to find the maximum and minimum values of  $f$  on  $I$ . You will also be asked to find the intervals on which  $f$  is increasing or decreasing.

### Problem 11

Let  $f(x) = x^3 - 3x^2 + 2x$ . Find the maximum and minimum values of  $f$  on the interval  $[-1, 3]$ .

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

First, we find the critical points of  $f$ . We do this by finding the derivative of  $f$  and setting it equal to zero. We then evaluate  $f$  at the critical points and at the endpoints of the interval  $[-1, 3]$  to find the maximum and minimum values of  $f$  on  $[-1, 3]$ .

Next, we find the intervals on which  $f$  is increasing or decreasing. We do this by finding the sign of the derivative of  $f$  on the interval  $[-1, 3]$ . We do this by testing the sign of the derivative at various points in the interval  $[-1, 3]$ .

$$f'(x) = 3x^2 - 6x + 2$$

For this problem, the maximum value of  $f$  on  $[-1, 3]$  is  $2$  and the minimum value of  $f$  on  $[-1, 3]$  is  $-2$ .

The next problem is similar to the first one. You will be given a function  $f$  and asked to find the maximum and minimum values of  $f$  on a given interval. You will also be asked to find the intervals on which  $f$  is increasing or decreasing.

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

For this problem, the maximum value of  $f$  on  $[-1, 3]$  is  $2$  and the minimum value of  $f$  on  $[-1, 3]$  is  $-2$ .

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