Poll Results



Math 3A03 **Poll Results**



Assignment 1: The Derivative



- (A) If f is even then f' is even.
- (B) If f is even then f' is odd.
- (C) If f is odd then f' is odd.
- (D) If f is odd then f' is even.
- (E) I have not had sufficient time to think about this yet.



Question #2 In class, we stated Rolle's Theorem as follows: If f is continuous on [a, b] and differentiable on (a, b), and f(a) = f(b), then there exists $x \in (a, b)$ such that f'(x) = 0. Do we definitely need all three hypotheses of the theorem in order to be sure that the conclusion follows? Put another way, in which of the following cases is it possible to construct a function that satisfies the two conditions listed but for which it is not true that there exists $x \in (a, b)$ such that f'(x) = 0?

- (A) f is continuous on [a, b] and differentiable on (a, b);
- (B) f is continuous on [a, b] and f(a) = f(b);
- (C) f is differentiable on (a, b) and f(a) = f(b).
- (D) I have not had sufficient time to think about this yet.



Poll Results (F) I have not had sufficient time to think about this yet.

