Problem Set 8 Real Analysis 1 Due 11/2/2004

Each problem is worth 5 points. Clear and complete justification is required for full credit. You are welcome to discuss these problems with anyone and everyone, but must write up your own final submission without reference to any sources other than the textbook and instructor.

1. Prove that the derivative of $f(x) = x^n$ is $f'(x) = nx^n$ for all $n \in \mathbb{N}$.

2. Prove that the derivative of an odd function is even.

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