Math 165: Honors Calculus I   Name:_____

Quiz 2   *Sept. 7, 1995*

1. Find all real numbers x satisfying $|x + 2| < |2x + 2|$.

2. Find all polynomials p of degree ≤ 2 satisfying $p(1/x) = 1/p(x)$ for all $x \neq 0$.

3. a) Define $\binom{n}{k}$.

b) State the Binomial Theorem.

c) Determine the coefficient of x^6 in $(3x^2 - 5)^{12}$ (give its prime factorization!).