MAT 137 (Calculus II) Prof. Swift

Second Worksheet on Sequences

1. Suppose that $\lim\limits_{n\to\infty} |a_n| = 0$. Use the squeeze theorem (also called the sandwich theorem) to prove that $\lim\limits_{n\to\infty} a_n = 0$.

2. Find a formula for $f(n) = 1 \cdot 3 \cdot 5 \cdot \ldots \cdot (2n-3) \cdot (2n-1) \cdot (2n+1)$, involving factorials.