MAT 141
Problem Set #10

due in recitation on November 11 or 12, 2004

1. Apostol, section 3.6 # 1–5, 21
2. Using only the definition of the limit, prove that $\lim_{x \to 1} 3x + 4 = 7$.
3. Prove that a limit, if it exists, can only have one value. That is, prove that if $\lim_{x \to p} f(x) = A$ and $\lim_{x \to p} f(x) = B$, then $A = B$.