MAT 141
Quiz #3

September 30, 2004

Intructions: You have 15 minuntes for this quiz. You may not use any books, notes, or calculators. Justify every statement that you make. If you wish to use a theorem proved in class, state the theorem precisely. Good luck.

Rewrite the following sum in sigma notation:

$$1^1 + 4^4 + 7^7 + 10^{10} + 13^{13} + 16^{16}$$

Evaluate the following sum:

$$\sum_{i=1}^{n} (n+i)^2$$