Logan Miles

HW 4

1.6.2

11) For $N=0$: $\frac{1}{\pi} \approx \frac{2\sqrt{2}}{9801}\sum_{k=0}^{\infty} \frac{(4(0))!\,(1103+26390(0))}{(0!)^4\, 396^0} = \frac{2\sqrt{2}}{9801}(1103)$

For $N=1$: $\frac{1}{\pi} \approx \frac{2\sqrt{2}}{9801}\sum_{k=0}^{\infty} \frac{(4(1))!\,(1103+26390(1))}{(1!)^4\, 396^1} = \frac{2\sqrt{2}}{9801}\left(1103+\frac{26390}{396}\right)$

5.4

1) y will be equal to 1000 after the completion of the nested loop because y is only incremented forward when i==j in the range 0 to 999, and there are 1000 such combos.