Hwk 1: Math Review
Due in class on Wednesday 1/7

Let a_1, a_2, a_3, ... be a sequence of numbers and assume that $a_1 = 1$.

1) If $a_{n+1} = 1.03a_n$ for all $n \geq 1$, then what is $\sum_{i=1}^{30} a_i$?

2) If $a_{n+1} = \frac{a_n}{1.03}$ for all $n \geq 1$, then what is $\sum_{i=1}^{\infty} a_i$?

3) If $a_{n+1} = 1.03a_n - 0.05$ for all $n \geq 1$, then what is a_{30}?