## Hint for Problem 211-c

You may run into a product of the form $\sum_{i=0}^{\infty} a^{i} x^{i} \sum j=0^{\infty} b^{j} x^{j}$. Note that in the product, the coefficient of $x^{k}$ is $\sum_{i}=0^{k} a^{i} b^{k-i}=b^{k} \sum_{i=0^{k}} \frac{a^{i}}{b^{i}}$.

