EXERCISE ONE Consider the power series

$$g(x) = \sum_{n=0}^{+\infty} \frac{1}{3^n} x^n.$$

Compute the product g(x)g(x). **EXERCISE TWO** Consider the function

$$f(x)=\frac{x}{1-x^2}.$$

Find the power series representing f and a power series representing a primitive function of f.

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