

$$\begin{array}{r}
 \frac{1}{1+x} \\
 1-x+x^2-x^3+x^4-x^5+\dots \\
 \hline
 1+x \overline{) 1+0x+0x^2+0x^3+0x^4+0x^5+\dots} \\
 \underline{-(1+x)} \\
 -x+0x^2 \\
 \underline{-(-x-x^2)} \\
 x^2+0x^3
 \end{array}$$