If $A(x)=1.07 x$, then
$(A \circ A)(x)=A(A(x))=A(1.07 x)=1.07(1.07 x)=(1.07)^{2} x$, $(A \circ A \circ A)(x)=A((A \circ A)(x))=A\left((1.07)^{2} x\right)=1.07(1.07)^{2} x=(1.07)^{3} x$, and
$(A \circ A \circ A \circ A)(x)=A((A \circ A \circ A)(x))=A\left((1.07)^{3} x\right)=1.07(1.07)^{3} x,=$ $(1.07)^{4} x$.
These compositions represent the amount of the investment after 2,3 , and 4 years.
Based on this pattern, when we compose $n$ copies of $A$, we get the formula $\underbrace{(A \circ A \circ \cdots \circ A)}_{n A^{\prime} \mathrm{s}}(x)=(1.07)^{n} x$.

