$FV_{x-1} \ i = \text{The future value of 1 per unit period for } x \ \text{unit periods, first advance due immediately (at time} = 0, \text{ which is consummation).}$

\[
\sum_{j=0}^{x-1} (1+i)^{x-j} = (1+i)^x + (1+i)^{x-1} + \cdots + (1+i)^1; \text{ or}\]

\[
\frac{(1+i)^x - 1}{i} \times (1+i)
\]