Exercise

- **Write the code that reproduces the following LaTeX:**

The sum of a geometric series is:

$$\sum_{k=0}^{n} ar^k = ar^0 + ar^1 + ar^2 + ar^3 + \ldots + ar^n$$

We can rearrange the equation to produce the simple formula:

$$\sum_{k=0}^{n} ar^k = \frac{a(1-r^{n+1})}{1-r}$$

Exercise

The sum of a geometric series is:

```
\begin{displaymath}
\sum^n_{k=0}ar^k=ar^0+ar^1+ar^2+ar^3+\ldots+ar^n
\end{displaymath}
```

We can rearrange the equation to produce the simple formula:

```
\begin{displaymath}
\sum^n_{k=0}ar^k=\frac{a(1-r^{n+1})}{1-r}
\end{displaymath}
```