Give the starting value and constant multiplier for each sequence. then find the 7 th term of the sequence. $27,18,12$,

## Solution:

This is geometric progression starting value equal to 27 . So constant multiplier q equal to

$$
q=\frac{a_{2}}{a_{1}}=\frac{18}{27}=\frac{1}{3}
$$

Formulae for the n-th term

$$
a_{n}=a_{1} q^{n-1}
$$

For 7th term of our sequence

$$
a_{7}=27\left(\frac{1}{3}\right)^{6}=\frac{27}{729}=\frac{1}{27}
$$

## Answer:

starting value equal to 27 ;
constant multiplier q equal to $\frac{1}{3}$;
7th term of sequence $\frac{1}{27}$;

