

Name in English

Find Geometric Means

Find the geometric mean of the following sequence.

1. $810, _, _, _, 10.$
· $_, _, _$

2. $640, _, _, _, 2.5$
· $_, _, _$

Find the Sum of a Geometric Series

Find the sum of following geometric series.

3. $3 + 9 + 27 + \dots + 59049$
a) First term $a = _$
b) Common ratio $r = _$
c) Number of terms $n = _$
d) Sum $S_n = _$

4. $a_1 = 16, \quad n = 9, \quad r = 0.5$

- a) First term $a =$ ____
- b) Common ratio $r =$ ____
- c) Number of terms $n =$ ____
- d) Sum $S_n =$ ____

5. $a_n = \frac{10935}{256}, \quad r = 3/4, \quad n = 7$

- a) First term $a =$ ____
- b) Common ratio $r =$ ____
- c) Number of terms $n =$ ____
- d) Sum $S_n =$ ____