

GEOMETRIC SERIES

→ Sum of the geometric sequence

Solution:

$$S_n = \frac{a_1(1-r^n)}{1-r}$$

$$1 + 3 + 9 + 27 + 81 + 243 + 729$$

$$S_7 = 3(1 -$$

$$S_n = \frac{a_1(1-r^n)}{1-r}$$

Annotations:

- a_1 : 1st term
- n : no of term
- $1-r$: common ratio
- S_n : Sum of the n th term

Ex. 1

$$\underline{3}, -9, 27, -81, 243, \dots$$

Find the sum of the first $\underline{n}$ terms

Geometric Series Quiz

Thomas Griffiths



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