

7.4 GEOMETRIC SEQUENCES AND SERIES

Notes

You just won a very strange lottery. The lottery promises to give you money each day for a 30-day month based on one of two options:

- Option 1: You can receive \$1000 on the first day, \$2000 on the second day, \$3000 on the third day, etc.
- Option 2: You can receive \$0.01 on the first day, \$0.02 on the second day, \$0.04 on the third day, \$0.08 on the fourth day, etc.

Of the two options, which would result in the larger payout on the 30th day only?

Option 1

$$Q_{30} = 1000 + (30-1)(1000) = 30,000$$

Option 2

$$Q_{30} = 0.01(2)^{29} = 5,368,709.12$$

The n^{th} Term of a Geometric Sequence

The n^{th} Term of a Geometric Sequence with first term a_1 and common ratio r is given by $a_n = a_1 r^{n-1}$

1. Write an explicit and a recursive formula for finding the n^{th} term in the sequence 2, 25, 312.5, ...

Explicit

$$r = \frac{25}{2} = 12.5$$

$$Q_n = 2(12.5)^{n-1}$$

Recursive

$$a_1 = 2, Q_n = 12.5 Q_{n-1}$$

2. Find the 27th term of the geometric sequence 189, 151.2, 120.96, ...

$$r = \frac{151.2}{189} = 0.8$$

$$Q_{27} = 189(0.8)^{26} \approx 0.57$$

Practice - Given the geometric sequence 4, 14, 49, ...

- a. Write an explicit and a recursive formula for a_n .

$$r = \frac{14}{4} = 3.5 \quad \frac{Q_n = 4(3.5)^{n-1}}{a_1 = 4, Q_n = 3.5 Q_{n-1}}$$

- b. Find the a_9 .

$$Q_9 = 4(3.5)^8 = 90075.02$$

3. Of the two options for receiving your prize from the strange lottery discussed above, which would result in the larger total prize?

Option 1

$$S_{30} = \frac{30}{2}(1000 + 30,000) = 15(31,000) = 465,000$$

Option 2

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

$$S_{30} = \frac{0.01(1-2^{30})}{1-2} = 10,737,418.23$$

Sum of a Finite Geometric Series

The sum of a finite geometric series with n terms can be found using the formula $S_n = \frac{a_1(1-r^n)}{1-r}$

4. Find the sum of the first six terms of the geometric series $8 + 14 + 24.5 + \dots$

$$r = \frac{14}{8} = 1.75$$

$$S_6 = \frac{8(1-1.75^6)}{1-1.75} \approx 295.71$$

Practice - Find the sum of the first 12 terms of the geometric series $7 + (-24.5) + 85.75 + \dots$

$$r = \frac{-24.5}{7} = -3.5$$

$$S_{12} = \frac{7(1-(-3.5)^{12})}{1-(-3.5)} \approx 1,501,874.34$$

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