

What is a geometric sequence? Give a definition and an example.

$2, 4, 8, 16, 32, \dots$ $a_n = 2 \cdot 2^{n-1}$

What is the formula for finding the sum of a geometric series?

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

Find the first four terms of each geometric sequence.

1. $a_1 = 0.5, r = 2$

2. $a_1 = 1, r = -2$

3. $a_1 = 16, r = \frac{1}{2}$

$0.5, 1, 2, 4, 8, 16, \dots$

$1, -2, 4, -8, 16, -32, \dots$

$16, 8, 4, 2, 1, \frac{1}{2}, \dots$

For the following geometric sequences, find a_1 and r .

4. $4, 8, 16, 32, \dots$

5. $100, 50, \frac{25}{2}, \frac{12.5}{4}, \dots$

6. $32, -4, \frac{1}{2}, -\frac{1}{8}, \dots$

$a_1 = 4, r = 2$

$a_1 = 100, r = \frac{1}{2}$

$a_1 = 32, r = -\frac{1}{4}$

Use the formula to find the indicated term of each geometric sequence.

7. Find a_6 for $a_1 = 7, r = 2$

8. Find a_5 for $a_1 = 32, r = \frac{1}{2}$

9. Find a_5 for $a_1 = 243, r = -\frac{1}{3}$

$a_6 = 7 \cdot 2^5$

$a_5 = 32 \cdot \left(\frac{1}{2}\right)^4$

$a_5 = 243 \cdot \left(-\frac{1}{3}\right)^4$

$a_6 = 224$

$a_5 = 2$

$a_5 = 243$

10. Find a_5 for $1, 3, 9, \dots, r = 3$

11. Find a_5 for $2, -10, 50, \dots, r = -5$

12. Find a_5 for $\frac{1}{10}, \frac{1}{5}, \frac{1}{2}, \dots, r = \frac{1}{2}$

$a_5 = 1 \cdot 3^4$

$a_5 = 2 \cdot (-5)^4$

$a_5 = \frac{1}{10} \cdot \left(\frac{1}{2}\right)^4$

$a_5 = 81$

$a_5 = 1250$

$a_5 = \frac{1}{640}$

Use the formula to find the missing terms of each geometric sequence.

13. $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$

14. $\frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \frac{1}{81}, \frac{1}{243}, \dots$

15. $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, \frac{5}{4}, \frac{7}{4}, \dots$

$a_n = a_1 \cdot r^{n-1}$

$a_n = a_1 \cdot r^{n-1}$

$a_n = a_1 \cdot r^{n-1}$

$\frac{1}{16} = \frac{1}{4} \cdot r^4$

$\frac{1}{243} = \frac{1}{3} \cdot r^4$

$\frac{1}{4} = \frac{1}{4} \cdot r^4$

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$\frac{1}{243} = \frac{1}{3} \cdot r^4$

$\frac{1}{4} = \frac{1}{4} \cdot r^4$

Use your formula to solve these word problems.

16. A ping pong ball is dropped from a height of 10 feet and bounces rebounded a distance of the previous fall. What distance does it rebound the 5th time?



$a_n = 10 \cdot \left(\frac{1}{2}\right)^{n-1}$

$\frac{10}{32} = \frac{1}{2} \cdot \left(\frac{1}{2}\right)^4$

$\frac{1}{32}$

17. A town has a population of 250,000 now and the population is increasing by 30% every year. What will the population be in 10 years?



$a_n = 250,000 \cdot (1.3)^{n-1}$

$2,357,955$ (rounded to the nearest person)

Answer Key To Geometric Sequences And Series

Doug French



Answer Key To Geometric Sequences And Series:

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Discrete Mathematics Alister Humphreys, 2003. *Mathematics for the IB Diploma: Higher Level with CD-ROM* Paul Fannon, Vesna Kadelburg, Ben Woolley, Stephen Ward, 2012-09-06. This title forms part of the completely new Mathematics for the IB Diploma series. This highly illustrated coursebook, available in both print and e-book formats, has been written to specifically cover the new IB Higher Level syllabus. Based on the new group 5 aims, the progressive approach encourages cumulative learning. Features include a dedicated chapter exclusively for combined exercises, plenty of worked examples, questions colour coded according to grade, exam style questions, feature boxes of hints and tips. The print book includes a CD-ROM providing a complete e-version of the book, all the options, chapters, extension worksheets, prior learning sheets, calculator skills sheets and fill in proofs. These additional materials are also included in the e-book version.

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web the movement of terrestrial carbon in the water cycle is shown in the diagram on the right and explained below atmospheric particles act as cloud condensation nuclei promoting cloud formation raindrops absorb organic and inorganic carbon through particle scavenging and adsorption of organic vapors while falling toward earth

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