

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

What is the formula for finding the n th term of a geometric sequence?

Find the first four terms of each geometric sequence.

1. $a_1 = 1, r = 2$

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

3. $a_1 = 24, r = \frac{1}{2}$

For the following geometric sequences, find a_5 and/or

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

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

6. $12, -6, \frac{3}{2}, -\frac{3}{8}, \dots$

7. $a_1 = 1, r = 2$ $a_5 =$ _____

8. $a_1 = 1, r = 2$ $a_5 =$ _____

9. $a_1 = 1, r = 2$ $a_5 =$ _____

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

7. Find a_5 for $a_1 = 7, r = 2$

8. Find a_5 for $a_1 = 32, r = 3$

9. Find a_5 for $a_1 = 240, r = -\frac{1}{2}$

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

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

12. Find a_5 for $\frac{8}{243}, \frac{8}{81}, \frac{8}{27}, \dots$
(Remember the formula "don't forget the exponent")

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

13. $1, \dots, \dots, \dots, \dots, 32$

14. $\frac{1}{8}, \dots, \dots, \dots, \dots, 27$

15. $\frac{1}{8}, \dots, \dots, \dots, \dots, \frac{1}{64}$

What? There are too many gaps to answer!

What? There are too many gaps to answer!

Use your formula to solve these story problems.

16. A physics ball is dropped from a height of 24 feet and always hits exactly $\frac{1}{2}$ distance of the previous ball. What distance does it rebound the 4th time?



17. A town has a population of 101,000 now and the population is increasing by 2.5% every year. What will the population be in 10 years?



Test 11 3 Geometric Sequences And Series Answer Key

Jin-Ying Zhang



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