

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

$2, 4, 8, 16, 32, \dots$ $a_1 = 2, r = 2$

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

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

Find the first four terms of each geometric sequence.

1. $a_1 = 0.5, r = 2$

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

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

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

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

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

For the following geometric sequences, find a_1 and r .

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

$$a_1 = 4, r = 2$$

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

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

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

$$a_1 = 32, r = -\frac{1}{8}$$

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

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

$$a_6 = 7 \cdot 2^5$$

$$a_6 = 224$$

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

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

$$a_5 = 2$$

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

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

$$243 \left(\frac{1}{81}\right) = 3$$

10. Find a_6 for $1, 3, 9, \dots, r = 3$

$$a_6 = 1 \cdot 3^5$$

$$a_6 = 243$$

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

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

$$a_5 = 1250$$

12. Find a_6 for $\frac{1}{10}, \frac{1}{5}, \frac{1}{2}, \frac{3}{4}, \dots, r = \frac{3}{2}$

$$a_6 = \frac{1}{10} \left(\frac{3}{2}\right)^5$$

$$\frac{243}{640}$$

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

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

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

$$\frac{32}{2} = 2 \cdot r^5$$

$$16 = r^5$$

$$r = 2$$

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

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

$$\frac{1}{27} = \frac{1}{3} \cdot r^2$$

$$\frac{1}{81} = r^2$$

$$r = \frac{1}{3}$$

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

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

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

$$1 = r^3$$

$$r = 1$$

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?



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

$$\frac{10}{32} = \frac{1}{2}$$

$$\frac{1}{32}$$

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?



$$a_n = 250,000 (1.3)^n$$

$$625,745 \text{ (rounded to the nearest person)}$$

Geometric Sequences And Series Answer Key

Michal Rosen-Zvi



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