

c $2, 0, 2, 0, 2, 0, \dots$

d $2, 7, 24, 77, \dots$

e $1, 3, 6, 10, \dots$

Solution

To write a formula for the n^{th} term of a sequence, examine the terms and look for the pattern. Each of you may come with several formulae; the following are few of them.

a $a_n = n^2$

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

c $a_n = 1 - (-1)^n$

d $a_n = 3^n - n$

e $a_n = \frac{n}{2}(n+1)$

Some sequences are defined by giving a formula for the n^{th} term:

Example 3

a For the sequence $\left\{\frac{n}{n+1}\right\}_{n=1}^{\infty}$, the general term is $a_n = \frac{n}{n+1}$ and terms of the sequence can be given as $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \dots, \frac{n}{n+1}, \dots$

b For the sequence $\left\{\frac{(-1)^n}{n}\right\}_{n=1}^{\infty}$, the general term is $a_n = \frac{(-1)^n}{n}$ and terms of the sequence can be given as $-1, \frac{1}{2}, -\frac{1}{3}, \frac{1}{4}, \dots, \frac{(-1)^n}{n}, \dots$

Graphically, this sequence is described in the figure below.

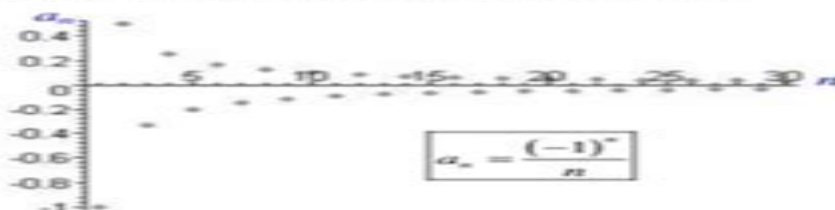


Figure 1.2

c For the sequence $\left\{\sin\left(\frac{n\pi}{3}\right)\right\}_{n=1}^{\infty}$ the general term is $a_n = \sin\left(\frac{n\pi}{3}\right)$ and terms of the sequence can be given as $\frac{\sqrt{3}}{2}, \frac{\sqrt{3}}{2}, 0, -\frac{\sqrt{3}}{2}, -\frac{\sqrt{3}}{2}, 0, \dots, \sin\left(\frac{n\pi}{3}\right), \dots$

Note:

✓ A sequence that has a last term is called a **finite sequence**. A sequence that does not have a last term is called an **infinite sequence**. The domain of a finite sequence is $\{1, 2, 3, \dots, n\}$. The domain of an infinite sequence is $\mathbb{N}$.

For instance, $1, 2, 3, \dots, 10$ is a finite sequence and $1, 2, 3, \dots$ is an infinite sequence. Some sequences do not have a simple defining formula.

Example 4

a The sequence, $\{p_n\}$, where p_n is the population of Ethiopia as of Meskerem

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Table of Contents Ethiopia Grade Past Papers

1. Understanding the eBook Ethiopia Grade Past Papers
 - The Rise of Digital Reading Ethiopia Grade Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ethiopia Grade Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ethiopia Grade Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ethiopia Grade Past Papers
 - Personalized Recommendations
 - Ethiopia Grade Past Papers User Reviews and Ratings
 - Ethiopia Grade Past Papers and Bestseller Lists
5. Accessing Ethiopia Grade Past Papers Free and Paid eBooks
 - Ethiopia Grade Past Papers Public Domain eBooks
 - Ethiopia Grade Past Papers eBook Subscription Services
 - Ethiopia Grade Past Papers Budget-Friendly Options
6. Navigating Ethiopia Grade Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ethiopia Grade Past Papers Compatibility with Devices
 - Ethiopia Grade Past Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ethiopia Grade Past Papers
 - Highlighting and Note-Taking Ethiopia Grade Past Papers
 - Interactive Elements Ethiopia Grade Past Papers
8. Staying Engaged with Ethiopia Grade Past Papers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ethiopia Grade Past Papers
9. Balancing eBooks and Physical Books Ethiopia Grade Past Papers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ethiopia Grade Past Papers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ethiopia Grade Past Papers
- Setting Reading Goals Ethiopia Grade Past Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ethiopia Grade Past Papers
- Fact-Checking eBook Content of Ethiopia Grade Past Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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