



Find the 8th term of the sequence whose general term is $2n^2$

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- A. 64
- B. 128
- C. 256
- D. 512

Show Answer...

Correct Answer: B (128)

Explanation:

The general term of the given sequence is $2n^2$. To find the 8th term, we can substitute $n=8$ into the formula:

$$a_n = 2n^2$$

$$a_8 = 2(8)^2$$

$$a_8 = 2(64)$$

$$a_8 = 128$$

Therefore, the 8th term of the sequence is 128.

Understanding Sequences in Mathematics: Definition and Examples

In mathematics, a sequence is a list of numbers arranged in a particular order. Sequences can be finite or infinite and can be defined in a variety of ways. In this article, we will define what a sequence is and provide some examples to help you better understand this concept.



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A sequence is a function whose domain is the set of positive integers. Each element of the sequence is called a term, and the position of a term in the sequence is called its index. For example, the sequence 1, 2, 3, 4, 5, ... is an infinite sequence with first term 1, second term 2, and so on.

Sequences can be defined using explicit formulas, recursive formulas, or by listing the terms. An explicit formula gives a direct formula for finding any term of the sequence, while a recursive formula defines each term in terms of the previous term(s).

Let's take an example to understand this better. Consider the sequence 3, 7, 11, 15, 19, We can define this sequence using an explicit formula:

$$a_n = 4n - 1$$

where n is the index of the term. For example, the 8th term of this sequence can be found by substituting $n=8$ into the formula:

$$a_8 = 4(8) - 1$$

$$a_8 = 31$$

Therefore, the 8th term of the sequence is 31.

Sequences are used in a variety of real-life situations, including in computer science, physics, and finance. For example, in finance, the future value of an investment can be calculated using a sequence formula. Similarly, in physics, the position of an object over time can be represented as a sequence.

In conclusion, sequences are an important concept in mathematics and have many real-life applications. Understanding this concept is essential for solving problems in a variety of fields, including science, finance, and engineering.

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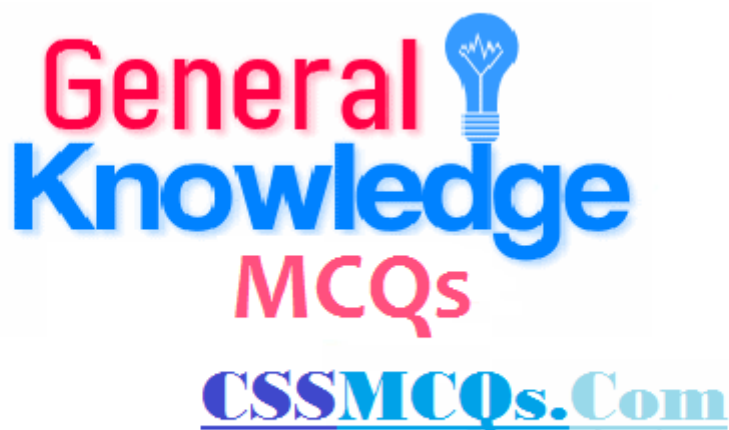
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