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learn how to find explicit formulas for arithmetic sequences for example find an explicit formula for 3 5 7 learn how to convert between recursive and explicit formulas of arithmetic sequences sal finds explicit formulas of arithmetic sequences given the first few terms of those sequences he also explores equivalent forms of such formulas explicit formula here you will learn about explicit formulas including what they are how to use them and how to create them for arithmetic and geometric sequences students will first learn about explicit formulas as part of algebra in high school can you find the nth term of an arithmetic sequence this algebra lesson on arithmetic sequences looks at different types of sequences the definition of an arithmetic sequence sequence notation and how to use recursive and explicit formulas an explicit formula for an arithmetic sequence with common difference d is given by a n a 1 d n 1 see example pageindex 5 an explicit formula can be used to find the number of terms in a sequence given a recursive definition of an arithmetic or geometric sequence you can always find an explicit formula or an equation to represent the n th term of the sequence consider for example the sequence of odd numbers we started with 1 3 5 7 we can find an explicit formula for the n th term of the sequence if we analyze a few terms in general the explicit formula is the n th term of arithmetic geometric or harmonic sequence let us check the explicit formulas and how to find the explicit formulas of each of the sequence with the help of examples faqs let s find an explicit formula for the sequence remember that we can represent a sequence whose first term is a and common difference is b with the standard explicit form a b n 1 therefore an explicit formula of the sequence is a n 3 2 n 1 check your understanding 1 write an explicit formula for the sequence learn how to write an explicit formula for an arithmetic sequence in this free math video tutorial by mario s math tutoring more explicit formulas are helpful if we want to find a specific term of a sequence without finding all of the previous terms we can use the formula to find the latex n text th latex term of the sequence where latex n latex is any positive number explicit formulas can be used to determine the number of terms in a finite arithmetic sequence we need to find the common difference and then determine how many times the common difference must be added to the first term to obtain the final term of the sequence but there are other ways in this lesson we ll be learning two new ways to represent arithmetic sequences recursive formulas and explicit formulas formulas give us instructions on how to find any term of a sequence an explicit formula helps you calculate the nth term of a sequence explicitly or directly by substituting a value for n recall that n is just the term number we want to find it s the position of the term we want in the sequence so if you want to find the third term in a sequence you let n 3 these problems are appropriately applicable to analytic geometry and algebra therefore precalculus gives you the background for the mathematical concepts problems issues and techniques that learn how to write an explicit formula for a geometric sequence in this free math video tutorial by mario s math tutoring more the arithmetic sequence explicit formula is derived from the terms of the arithmetic sequence it helps to easily find any term of the arithmetic sequence the arithmetic sequence is a 1 a 2 a 3 a n here the first term is referred as a and we have a a 1 and the common difference is denoted as d recursive formulas and explicit formulas are two ways of expressing arithmetic and geometric sequences of numbers in this video we are going to discuss what each of them are and how to write sequences of numbers using each of these two techniques let s consider the sequence of numbers 3 8 13 18 23 and so on 3 8 13 18 23 the explicit formula is generally written as a n a n 1 d but this formula is used to determine the terms of an arithmetic sequence we can use the explicit formula to find the terms of arithmetic geometric and harmonic sequence sal finds an explicit formula of a geometric sequence given the first few terms of the sequences then he explores equivalent forms the explicit formula and finds the corresponding recursive formula

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