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Prove the following through the principle of mathematical induction for all values of n, where n is a natural number. 1) $1 + 3 + 3^2 + \cdots + 3^{n-1} = \frac{(3^n - 1)}{2}$ 2: $1^3 + 2^3 + 3^3 + \cdots \cdots + n^3 = \left(\frac{n(n+1)}{2}\right)^2$ 3: $1+\frac{1}{1+2}+\frac{1}{1+2+3}+\cdots\cdots+\frac{1}{}$

$1+2+3+\cdots+n\}=\frac{2n}{n+1}\)

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Principle of Mathematical Induction is a specific technique used to prove certain mathematically accepted statements in algebra and in other applications of

Mathematics, such as inductive and deductive reasoning. NCERT Solutions of BYJU ' S cover all these concepts and help in scoring full marks in this chapter.

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Principle of Mathematical induction

class 11 (PMI class 11) First, we have to prove that at n = 1 we have L.H.S = R.H.S. Second, We have to prove that P (n) is true for n = k and k belongs to Natural number. Third, WE have to prove P (k+1) is true.

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Hence, by the principle of mathematical induction, statement P(n) is true for all natural numbers i.e., n. Question 6: Prove the following by using the

principle of mathematical induction for all n ∈ N: Answer Let the given statement be P(n), i.e., P(n): For n = 1, we have P(1): , which is true. http://www.ncerthelp.com www.ncerthelp.com

Chapter 4 Principle of Mathematical Induction - Ncert Help

This video explains the

concept of principle of mathematical induction.Why it is used and how it is used.

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Prove the following by using the principle of

mathematical induction for all n ∈ N: Question 1. 1 + 3 + 32 + ... + 3n − 1 = (3 1) 2 n − . Question 2.

Principle of Mathematical Induction Class 11 NCERT Solutions,

Here Basis step motivate us for mathematical induciton. Principle of Mathematical

Induction: The principle of mathematical induction is one such tool which can be used to prove a wide variety of mathematical statements. Each such statement is assumed as P(n) associated with positive integer n, for which the correctness for the case n = 1 is examined.

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