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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) $1 + 3 + 3^2 + \dots + 3^{n-1} = \frac{(3^n - 1)}{2}$ 2) $1^3 + 2^3 + 3^3 + \dots + n^3 = \left(\frac{n(n+1)}{2}\right)^2$ 3) $\left(1 + \frac{1}{1+2}\right) + \frac{1}{1+2+3} + \dots + \frac{1}{1+2+3+\dots+n} = \frac{2n}{n+1}$

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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.

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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 $n \in \mathbb{N}$: 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>

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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 $n \in \mathbb{N}$: Question 1. $1 + 3 + 3^2 + \dots + 3^{n-1} = (3^n - 1) / 2$. Question 2.

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Here Basis step motivate us for mathematical induction. 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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NCERT Solutions are provided to help the students in understanding the steps to solve mathematical problems that are provided in the textbook. Exercise 4.1 of NCERT Solutions for Class 11 Maths Chapter 4 – Principle of Mathematical Induction is the only exercise in this chapter. It includes questions from all the topics covered in this chapter:

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