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

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

Principle of Mathematical Induction | CBSE 11 Maths NCERT ...

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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.

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.

Principles Of Mathematical Induction class 11 Notes ...

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Principle of Mathematical Induction formulas will very helpful to understand the concept and questions of the chapter Principle of Mathematical Induction. I would like to suggest you remember the Principle of Mathematical Induction formulas for the whole life. It also helps you with higher studies.

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