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

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Principle of ...

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

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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.

## NCERT solutions class 11 Maths Chapter 4 Principle of ...

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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](http://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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## NCERT Solutions for Class 11 Maths Chapter 4 Principle of ...

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 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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In this video, I taught Principle of Mathematical Induction Chapter 4 of class 11. I have Explained all basics ...

## Chapter 4 Principle of Mathematical Induction (Basics ...

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## NCERT Exemplar Solutions for class 11 Mathematics ...

In this Chapter, we will prove questions

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using Mathematical Induction. We will discuss questions, examples and miscellaneous of Chapter 4 Class 11 Mathematical Induction in the NCERT Book. Mathematical Induction is used in proving in maths. It has 2 steps

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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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