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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) $1 + 3 + 3^2 +$

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

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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.
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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

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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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NCERT Solutions are provided to help the students in understanding the steps to solve mathematical problems that are provided in

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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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In this Chapter, we will prove questions using Mathematical Induction. We will discuss questions, examples and miscellaneous of Chapter 4 Class 11 Mathematical Induction in the NCERT Book. Mathematical Induction is

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used in proving in maths. It has 2 steps

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